

GEOLOGICAL SURVEY OF CANADA
ALFRED R. C. SELWYN, C.M.G., LL.D., F.R.S., Director

CATALOGUE

OF

SECTION ONE OF THE MUSEUM

OF THE

GEOLOGICAL SURVEY

EMBRACING

THE SYSTEMATIC COLLECTION OF MINERALS

AND THE

COLLECTIONS OF ECONOMIC MINERALS AND ROCKS
AND SPECIMENS ILLUSTRATIVE OF
STRUCTURAL GEOLOGY

BY

G. CHRISTIAN HOFFMANN, F. Inst. Chem., F.R.S.C.,

*Assistant Director, Chemist and Mineralogist to the Survey, and Curator of the
Mineralogical and Lithological Section of the Museum.*




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TO ALFRED R. C. SELWYN, C.M.G., LL.D., F.R.S.,

Deputy Head and Director Geological Survey Department.

SIR,

In compliance with your wishes I have prepared, and beg herewith to lay before you, the accompanying catalogue of the collections contained in the Mineralogical and Lithological Section of the Museum attached to this Survey. Mr. Ralph L. Broadbent, Museum Assistant in this Section, has rendered valuable aid in the preparation of this Catalogue by preparing lists of the contents of the several cases and assisting in the correction of proofs—a work which he has carried out with an energy, perseverance and good-will which demand our warmest acknowledgments.

I have the honour to be,

Sir,

Your obedient servant,

G. CHRISTIAN HOFFMANN.

OTTAWA, April 20, 1893.

TABLE OF CONTENTS.

	Page.
Folding Plan of room showing relative position of the main collections and of the various cases in which they are arranged—facing page.....	1
Introductory remarks.....	1
A.—Systematic Collection of Minerals.	
I. NATIVE ELEMENTS.....	5, 30
II. SULPHIDES, ARSENIDES, TELLURIDES.....	6
<i>a.</i> Sulphides.....	6, 30
<i>b.</i> Arsenides.....	8
<i>c.</i> Arsenosulphides.....	8
<i>d.</i> Tellurides.....	8
<i>e.</i> Oxysulphides.....	8
III. SULPHO-SALTS.—SULPH-ANTIMONITES, SULPH-ARSENITES... ..	9
<i>a.</i> Sulph-antimonites.....	9
<i>b.</i> Sulph-arsenites.....	9
IV. HALOIDS.—FLUORIDES.....	9
V. OXIDES.....	9, 30
<i>a.</i> Oxides of silicon.....	9, 30
<i>b.</i> Oxides of the metals.....	11, 30
VI. OXYGEN SALTS.....	13
1. Carbonates.....	13, 30
2. Silicates,—titanates.....	15
<i>A.</i> Anhydrous silicates.....	15, 31
<i>a.</i> Disilicates, polysilicates.....	15
<i>b.</i> Metasilicates.....	16
<i>c.</i> Orthosilicates.....	17
<i>d.</i> Subsiliates.....	20

TABLE OF CONTENTS—*Continued.*

	Page
OXYGEN SALTS— <i>Continued.</i>	
<i>B.</i> Hydrous silicates	20, 32
<i>a.</i> Zeolite division	20
<i>b.</i> Mica division	22
<i>c.</i> Serpentine and talc division	24
<i>d.</i> Kaolin division	25
<i>e.</i> Concluding division	25
<i>C.</i> Titano-silicates	26, 33
3. Niobates, tantalates	26
4. Phosphates, nitrates	26, 33
5. Borates, uranates	27
6. Sulphates	27, 33
7. Tungstates	28, 33
VII. SALTS OF ORGANIC ACIDS (unrepresented).	
VIII. HYDROCARBON COMPOUNDS	29
SUPPLEMENTAL SERIES OF MINERALS TO SYSTEMATIC COLLECTION	30

B.—Collection of Economic Minerals and Rocks.

I. METALS AND THEIR ORES.	
Antimony ores	54
Specimens illustrating the distribution of ores of antimony	57
Bismuth ore	55
Cobalt ore	55
Copper ores :	
Native copper	83
Specimens illustrating the distribution of native copper	86
Bornite or purple copper ore	84
Specimens illustrating the distribution of bornite	88
Chalcocite or vitreous copper ore	83
Specimens illustrating the distribution of chalcocite	87
Chalcopyrite or copper pyrites	85
Specimens illustrating the distribution of chalcopyrite	89
Tetrahedrite or grey copper	89

TABLE OF CONTENTS—*Continued.*

METALS AND THEIR ORES— <i>Continued.</i>	Page
Gold ores :	
Gold-bearing quartz	37
Gold-bearing rocks, other than quartz, also auriferous arsenopyrite and stibnite	38
Placer gold	39
Gold and silver ores :	
Gold and silver ores from the province of British Columbia.	
1. East Kootanie district	41
<i>a.</i> McMurdo mining area	42
2. West Kootanie district	42
<i>a.</i> Toad Mountain mining camp	42
<i>b.</i> Hot Springs or Harrison mining camp	43
<i>c.</i> Hendryx mining camp	44
<i>d.</i> Illecillewaet mines	44
<i>e.</i> Kaslo-Slocan mines	45
<i>f.</i> Big Bend region	46
<i>g.</i> From other claims in the West Kootanie district	46
3. Southern interior	46
<i>a.</i> Stump Lake or Nicola mines	46
From other claims in the southern interior	47
4. Cariboo and northern interior	47
Iron ores :	
Bog-iron ore	66
Specimens illustrating the distribution of bog-iron ore	75
Clay iron-stone	67
Specimens illustrating the distribution of clay iron-stone	76
Hematite and varieties of the same	64
Specimens illustrating the distribution of hema- tite	72
Mineral associations of hematite	82
Ilmenite or titanite iron	64
Specimens illustrating the distribution of ilmenite	78
Iron sands	64
Limonite or brown hematite	65
Specimens illustrating the distribution of limonite	75
Mineral associations of limonite	83

TABLE OF CONTENTS—*Continued.*

METALS AND THEIR ORES— <i>Continued.</i>	Page
Iron ores— <i>Continued.</i>	
Magnetite or magnetic iron ore.....	62
Specimens illustrating the distribution of magnetite.....	67
Mineral associations of magnetite.....	79, 80
Siderite or spathic iron.....	67
Specimens illustrating the distribution of siderite.....	76
Lead ores.....	50
Specimens illustrating the distribution of lead ores.....	52
Manganese ores, oxides of manganese.....	62
Specimens illustrating the distribution of ores of manganese.....	61
Mercury ores.....	55
Nickel ores.....	54
Specimens illustrating the distribution of ores of nickel.....	58
Platinum.....	56
Silver ores (see also under gold and silver ores—above).	
Silver ores from the Thunder Bay mining region, Lake Superior, Ontario.....	48
Silver ores from the provinces of British Columbia and Quebec.....	50
Silver-lead and lead ores.....	50
Specimens illustrating the distribution of silver-lead and lead ores.....	52
Zinc ore.....	55
Specimens illustrating the distribution of zinc ore.....	59
II. MINERALS APPLICABLE TO CERTAIN CHEMICAL MANUFACTURES.	
Apatite (phosphate of lime).....	150
Specimens illustrating the distribution of apatite.....	153
Mineral associations of apatite.....	155
Arsenopyrite (sulph-arsenide of iron).....	56
Specimens illustrating the distribution of arsenical pyrites.....	57
Celestite (sulphate of strontia).....	134
Chromic iron ore (chromate of iron).....	56
Specimens illustrating the distribution of chromic iron.....	60

TABLE OF CONTENTS—*Continued.*

MINERALS APPLICABLE TO CERTAIN CHEMICAL MANUFACTURES— <i>Continued.</i>		Page
Iron pyrites (bisulphide of iron).....		56
Specimens illustrating the distribution of iron pyrites		61
Magnesite (carbonate of magnesia).....		134
Manganese ores (oxides of manganese).....		62
Specimens illustrating the distribution of ores of manganese		61
Molybdenite (sulphide of molybdenum).....		56
Specimens illustrating the distribution of molybdenite.....		60
Scheelite (tungstate of lime).....		28, 33
III. MINERALS USED IN THE PRODUCTION OF LIGHT AND HEAT.		
Coal series :		
Peat.....		93
Lignite.....		93
Lignitic coal.....		98
Coal,—of Cretaceous and Laramie age.....		99
Coal,—of the Carboniferous system.....		103
Anthracitic coal.....		102
Semi-anthracite.....		102
Anthracite.....		102
Bitumen series :		
Petroleum.....		105
Oil shale, etc.....		105
Mineral tar.....		105
Bituminous shale and sand-rock.....		105
Albertite.....		104
IV. MINERALS (AND MATERIAL MANUFACTURED FROM CERTAIN OF THE SAME) APPLICABLE TO COMMON AND DECORATIVE CONSTRUCTION.*		
Building stones :		
Limestones.....		107
Dolomites.....		110
Sandstones.....		111
Granites.....		112
Gneisses.....		113
Syenites.....		113
Marbles, limestone and serpentine.....		114, 118
Labradorite rock.....		113

TABLE OF CONTENTS—*Continued.*

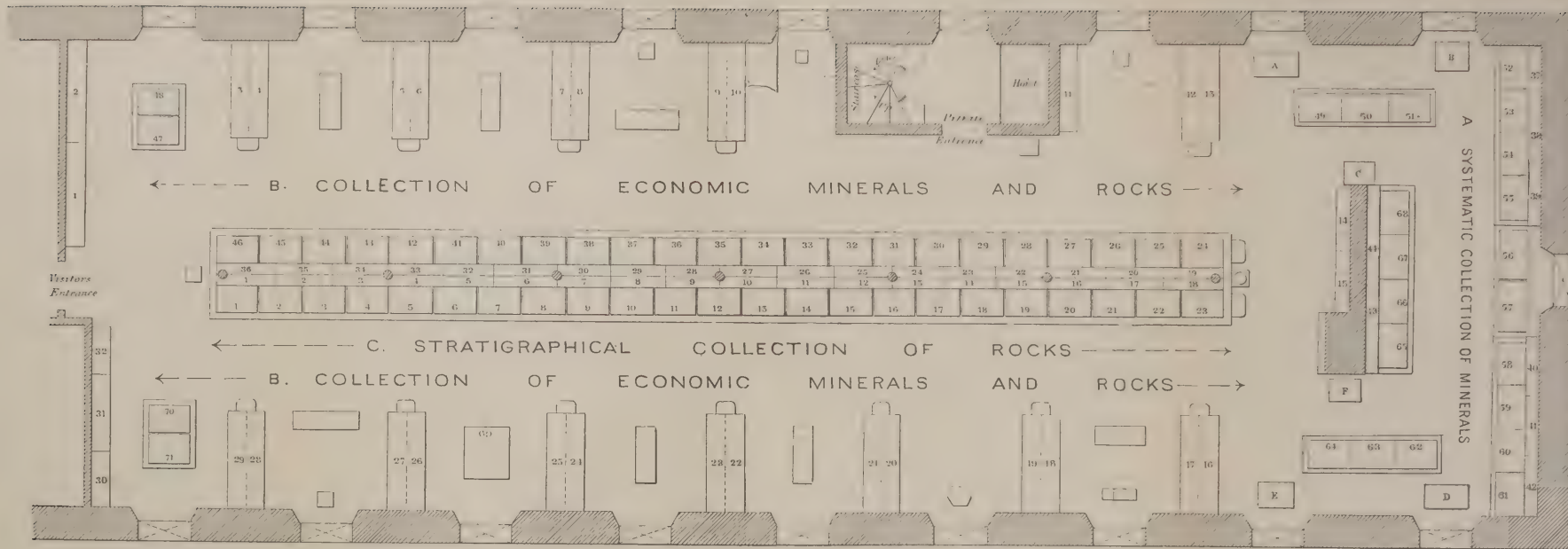
MINERALS APPLICABLE TO COMMON AND DECORATIVE CONSTRUCTION— <i>Continued.</i>	Page
Building stones— <i>Continued.</i>	
Trap rock	113
Archæan and Palæozoic rocks	120
Brick-clays, bricks and drain tiles.	122
Gypsum, anhydrite and plaster-of-Paris	129
Raw cement stones and hydraulic limes	128
Raw limestones and common limes	127
Roofing slates and slate flooring tiles	106
V. MINERALS EMPLOYED AS PIGMENTS.	
Barite or barytes	133
Iron ochres, and other ferruginous minerals, and pig- ments prepared therefrom	131
Steatite	134
VI. REFRACTORY (FIRE RESISTING) MINERALS.	
Asbestos (the variety of serpentine commercially so- called)	138
Specimens illustrating the distribution of chryso- tile or so-called asbestos	140
Articles made of asbestos	140
Fire-clay, kaolin, etc	139
Graphite, vein and disseminated	134
Specimens illustrating the distribution of graphite.	136
Mineral associations of graphite	137
Articles manufactured from graphite	135
Micas :	
Biotite or magnesium-iron mica	141
Muscovite or potassium mica	141
Phlogopite or magnesium mica	141
Potstone or compact chlorite	139
Sandstone, friable, used for furnace hearths	139
Soapstone or steatite	139
VII. BRINES, SALT, AND MINERAL WATERS.	
Brines and salt	142
Mineral waters	143
VIII. MINERALS APPLICABLE TO THE FINE ARTS AND JEWELLERY.	
Miscellaneous ornamental minerals and rocks	145
Lithographic stone	148

TABLE OF CONTENTS—*Continued.*

IX. MINERALS EMPLOYED, WITH OR WITHOUT PREVIOUS PREPARATION, AS FERTILIZERS.	Page
Apatite	150
Specimens illustrating the distribution of apatite.	153
Mineral associations of apatite	155
Gypsum	152
Marls	152
Phosphatic rock	152
X. MINERALS EMPLOYED FOR GRINDING AND POLISHING.	
Infusorial earth or earthy tripolite	161
Marl, arenaceous and calcareous	152, 162
Sandstones and mica-slates, and articles manufactured therefrom	160
Silicious sand and silt	162
XI. MINERALS OF MISCELLANEOUS APPLICATION.	
Felspar, suitable for the manufacture of porcelain	139
Moulding sand	162
Quartz, quartz sand, and sandstone, suitable for glass-making	162
Soap clay, employed as a detergent	162
POLISHED COLUMNS AND PEDESTALS OF LIMESTONE AND SERPENTINE MARBLES AND OF OTHER ORNAMENTAL STONES.	163
LARGE FRAGMENTS, ETC., OF MISCELLANEOUS MINERALS AND ROCKS.	164
MISCELLANEOUS MINERALS AND ROCKS	164
C.—Stratigraphical Collection of Rocks	166
D.—Specimens illustrating Structural and Phenomenal Geology	167
INDEX TO, AND SYNOPSIS OF CONTENTS OF, CASES	175
INDEX TO NUMBERS ON SPECIMENS	178
INDEX TO MINING DISTRICTS, AREAS, CAMPS, LOCATIONS AND CLAIMS, ALSO TO MINES, QUARRIES AND PITS	190
INDEX TO SUBJECTS	202

ERRATA.

- Page 7, line 9 from the bottom, *instead of* "1299" *read* "1297."
- 25, line 17 from the bottom, *for* "Rensellaerite" *read* "Rensselaerite."
- 40, line 26 from the top, *instead of* "446" *read* "466."
- 41, line 17 from the top, *instead of* "3637" *read* "5637."
- 54, line 13 from the bottom, *instead of* "647" *read* "697."
- 131, line 12 from the bottom, *instead of* "2440" *read* "2444."
- 136, upper side note *should read* "Upright table-case 29" *omitting the word* "continued."
- 136, line 5 from the top, *for* "pumbago" *read* "plumbago."
- 150, last line, *instead of* "978" *read* "975."
- 178, column 11, omission, *after* "242," *read* "243 page 85."

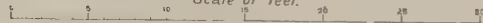


PLAN OF FIRST FLOOR OF GEOLOGICAL MUSEUM

Section I.

MINERALS AND ROCKS.

Scale of feet.



CATALOGUE
OF
SECTION ONE OF THE MUSEUM
OF THE
GEOLOGICAL SURVEY OF CANADA

Embracing the Systematic Collection of Minerals and the
Collections of Economic Minerals and Rocks and
Specimens Illustrative of Structural Geology

BY

G. CHRISTIAN HOFFMANN, F. INST. CHEM., F.R.S.C.,

*Assistant Director, Chemist and Mineralogist to the Survey, and Curator of
the Mineralogical and Lithological Section of the Museum.*

INTRODUCTORY REMARKS.

All the specimens shown in these collections are, without exception, from Canadian localities—hence the same may be justly regarded as fully illustrating the mineral resources of the Dominion, so far as these are known at present.

The minerals are arranged under two distinct headings—A., the Systematic Collection of Minerals, and B., the Collection of Economic Minerals. In the former, which illustrates the scientific classification of minerals, the specimens are arranged in accordance with the system followed in the sixth edition (1892) of Dana's "System of Mineralogy," whilst in the latter the classification is wholly technical, each mineral being arranged under a heading connected with some one of its more prominent applications. A synopsis of these classifications immediately precedes the collections to which they respectively refer.

In the Collection of Economic Minerals, the series of specimens of the various ores from some of the best known and most important deposits, is supplemented by another series illustrating the distribution of the mineral. This latter series when sufficiently extensive, as in the case of the iron ores, is arranged—primarily, in accordance with the scientific classification and secondarily and subordinately, geographically, the specimens from the various provinces being placed upon different coloured grounds as specified under heading “Specimens illustrating the distribution of iron ores.” There is also, in connection with the exhibits of apatite, graphite and the principal ores of iron, a suite of specimens showing the mineral associations of the same.

Owing to the limited space available for the display of the above mentioned collections, the disposition of the material, more especially in the case of the economic minerals, in a fairly satisfactory manner, has been beset by difficulties which could not, unfortunately, in all instances be overcome—as a result, related series of specimens are not always shown in such close juxtaposition as could be wished. The inconvenience caused by this is partly met by giving, as a side note, the designation and number of the case or cases in which each series of exhibits is shown, so that by referring to the accompanying diagram—which shows the relative position of the various cases and location of the main collections—it will be easy to find the exact position of the case or cases sought for, in the room. The numbers on the specimens correspond with those on their accompanying labels. These are in most instances very full, more especially in the collection of economic minerals, where they give the scientific and common name of the mineral, the locality whence it was obtained, geological formation (in most instances), name of the collector or donor and, in general, the date of collection.

Specimens having a higher number than 6549, are additions since the completion of this catalogue.

To facilitate reference from various points of view four indexes are appended. The first of these is an index to, and synopsis of the contents of, the various cases: the second, an index to the numbers on the specimens: the third, an index to mining districts, areas, camps, locations and claims, also to mines, quarries and pits: the fourth a very full index of subjects.

A.--SYSTEMATIC COLLECTION OF MINERALS.

This collection, which is located at the further end of the room, is shown in flat table-cases 49-68, and supplemental specimens, in connection with the same, in upright table-cases 37-44, and separate table-cases A, B, C, D, E and F.

The following is a synopsis of the system of classification employed. It is identical with that adopted in Dana's System of Mineralogy, sixth edition, 1892.

I.—NATIVE ELEMENTS.

II. —SULPHIDES, ARSENIDES, TELLURIDES [SELENIDES, ANTIMONIDES.]

- a. SULPHIDES.
- b. ARSENIDES.
- c. ARSENOSULPHIDES.
- d. TELLURIDES.
- e. OXYSULPHIDES.

III.—SULPHO-SALTS,—SULPH-ANTIMONITES, SULPH-ARSENITES [SULPHO-BISMUTHITES.]

- a. SULPH-ANTIMONITES.
- b. SULPH-ARSENITES.

IV. —HALOIDS.—[CHLORIDES, BROMIDES, IODIDES], FLUORIDES.

V.—OXIDES.

- a. OXIDES OF SILICON.
- b. OXIDES OF THE METALS.

VI.—OXYGEN SALTS.

1. CARBONATES.
2. SILICATES,—TITANATES.
 - A. Anhydrous silicates.
 - a. *Disilicates, polysilicates.*
 - b. *Metasilicates.*
 - c. *Orthosilicates.*
 - d. *Subsilicates.*
 - B. Hydrous silicates.
 - a. *Zeolite division.*
 - b. *Mica division.*
 - c. *Serpentine and talc division.*
 - d. *Kaolin division.*
 - e. *Concluding division.*

VI.—OXYGEN SALTS—*Continued.*

C. Titano-silicates, [titanates].

3. NIOBATES, TANTALATES.

4. PHOSPHATES [ARSENATES, VANADATES, ANTIMONATES],
NITRATES.

5. BORATES, URANATES.

6. SULPHATES, [CHROMATES, TELLURATES].

7. TUNGSTATES, [MOLYBDATES].

VII.—[SALTS OF ORGANIC ACIDS: OXALATES, MELLATES, Etc.]**VIII.—HYDROCARBON COMPOUNDS.**

NOTE.—The combinations enclosed in brackets are, at present, unrepresented in the collection. The labels indicating the main divisions are printed on grey-toned paper; those showing the subdivisions on white.

I.—NATIVE ELEMENTS.

- Graphite.**—Lot 3, range II. of Grenville, Argenteuil county, Q.—Coll., R. Bell, 1856. (1228.) Table-case 49.
- columnar.—Lot 28, range V. of Buckingham, Ottawa county, Q.—Coll., H. G. Vennor, 1877. (1249.)
- Walker's property, Buckingham, Ottawa county, Q.—Coll., C. W. Willimott, 1889. (2048.)
- High Falls, Bowman, Ottawa county, Q.—Coll., E. D. Ingall, 1891. (5186.)
- Lochaber, Ottawa county, Q. (1254.)
- Native Sulphur** (resulting from the decomposition of pyrite).—Lot 3, range I. of Denbigh, Addington county, O. (1238.)
- Native Arsenic.**—Seven miles up Watson Creek, west side of the Fraser River, twenty-five miles above Lytton, B.C. (3421.)
- Native Antimony.**—Lot 28, range I. of South Ham, Wolfe county, Q.—Coll., J. Richardson, 1875. (1248.)
- with kermesite.—Lot 28, range I. of South Ham, Wolfe county, Q.—Coll., C. W. Willimott, 1882. (1247.)
- Native Gold.**—Leary lead, Tangier, Halifax county, N.S.—Coll., A. E. C. Selwyn, 1870. (1230.)
- in dolomite.—Lot 15, range XIV. of Leeds, Megantic county, Q. (1231.)
- Chaudière River, Beauce county, Q. (1235.)
- Bonanza claim, Cayoosh Creek, near Lillooet, B.C.—Presented by F. Sones, 1891. (5390.)
- in hematite.—Clinton, B. C.—Presented by T. Elwyn, 1886. (5399.)
- nugget.—Nelson's claim, Upper Cherry Creek, Okanagan, B.C.—Presented by J. Fraser Torrance. (1233.)
- model of a nugget.—Mosquito Creek, Cariboo, B.C. (1232.)
- do do Keithly Creek, Cariboo, B.C. (1236.)
- Native Silver.**—Silver Islet, Lake Superior, district of Thunder Bay, O. (1237.)
- Rabbit Mountain mine, township of Paipoonge, district of Thunder Bay, O.—Presented by T. A. Keefer, 1884. (4960.)
- Silver Mountain mine, township of Lybster, district of Thunder Bay, O.—Presented by T. H. Trethewy, 1889. (5723.)
- model of a nugget.—Omenica, B.C. (1264.)
- Wellington mine, two miles north-east of Bear Lake, Kaslo-Slocan Road, West Kootanie, B.C.—Coll., E. D. Ingall, 1892. (1251.)
- Native Copper.**—Half a mile east of Horseshoe Cove, near Cape d'Or, Cumberland county, N.S.—Coll., Scott Barlow, 1876. (1244.)
- North shore of Minas Basin, Cumberland county, N.S.—Presented by Mr. Fairbanks, 1881. (1273.)
- Two Islands, Cumberland county, N.S.—Coll., S. Barlow, 1876. (1245.)
- Michipicoten Island, Lake Superior, O.—Coll., W. E. Logan, 1846. (1242.)
- St. Ignace Island, Lake Superior, O.—Coll., W. E. Logan, 1846. (1243.)

I.—NATIVE ELEMENTS—*Continued.*

- Table-case 49.—*Continued.* **Native Copper.**—Fraser River, about thirty miles above Fort George, B.C.—Presented by H. Glassy, 1875. (1240.)
- Fraser River, nine miles below Spence's Bridge, B. C.—Coll., J. Richardson, 1875. (1246.)
- Vital Creek, Omenica district, B.C.—Presented by H. G. Hanks. (3443.)
- Native Mercury.**—Eastern entrance to Seshart Channel, Barclay Sound, Vancouver Island, B.C. (5990.)
- Arquerite.**—Vital Creek, Omenica district, B.C.—Presented by H. G. Hanks, (3442.)
- model of a nugget.—Vital Creek, Omenica district, B.C. (1211.)
- Native Platinum.**—Similkameen River, B.C.—Coll., G. M. Dawson, 1877. (1234.)
- Granite Creek, Tulameen River, B.C.—Presented by T. Elwyn. (5351.)
- North Saskatchewan River, neighbourhood of Edmonton, district of Alberta, N.W.T. (5611.)
- Native Iron.**—North shore—fifth concession, back of Campement d'Ours—of St. Joseph Island, Lake Huron, O. (5605.)

II.—SULPHIDES, ARSENIDES, TELLURIDES, [SELENIDES, ANTIMONIDES.]

A.—Sulphides.

- Stibnite.**—Parish of Prince William, York county, N.B.—Coll., L. W. Bailey, 1881. (1252.)
- crystals.—Parish of Prince William, York county, N.B.—Coll., W. Broad, 1880. (1256.)
- Lot 28, range I. of South Ham, Wolfe county, Q. (1257.)
- Near Foster's Bar, about twenty-three miles above Lytton, Fraser River, B.C.—Coll., G. M. Dawson, 1888. (5993.)
- Bismuthinite.**—Lot 34, range III. of Tudor, Hastings county, O.—Coll., H. G. Vennor. (1259.)
- Little Shuswap Lake, north side, a mile and three-quarters from head of lake, B.C.—Coll., G. M. Dawson, 1879. (1258.)
- Molybdenite.**—Lot 2, range III. of Aldfield, Pontiac county, Q.—Presented by R. H. G. Chapman, 1884. (5114.)
- Harvey Hill mine, lot 17, range XV. of Leeds, Megantic county, Q. (1261.)
- Lot 22, range II. of Ross, Renfrew county, O.—Coll., C. W. Willimott, 1882. (1262.)
- Argentite.**—Lot 3, range XIII. of Ascot, Sherbrooke county, Q. (1268.)
- with native silver.—Silver Islet, Lake Superior, O. (1271.)
- Beaver mine, township of O'Connor, district of Thunder Bay, O.—Presented by T. A. Keefer, 1887. (5467.)
- Silver Mountain mine, township of Lybster, district of Thunder Bay, O.—Presented by T. H. Trethewy, 1889. (6502.)
- Table-case 50. — 39 T mine, near Rabbit Mountain, township of Paipoonge, district of Thunder Bay, O.—Presented by T. A. Keefer, 1886. (6503.)
- with native gold.—Found in sluice boxes, thirteen miles above Granite Creek, Tulameen River, B.C.—Coll., G. M. Dawson, 1888. (5392.)

A. — Sulphides—*Continued.*

- Galenite.**—South side of Little Whale River, Hudson Bay.—Coll., R. Bell, 1877. (1394.) Table-case 50.—*Continued.*
- with sphalerite.—Lot 10, range IV. of Calumet, Pontiac county, Q.—Presented by W. H. Murphy, 1887. (5458.)
- Victoria mine, Garden River, near Sault Ste. Marie, district of Algoma, O.—Coll., R. Bell, 1875. (1272.)
- Silver Islet, Lake Superior, O.—Presented by R. Trethewy, 1886. (5115.)
- with sphalerite and dolomite.—Shuniah mine, township of McIntyre, district of Thunder Bay, O.—Coll., A. R. C. Selwyn, 1872. (1274.)
- Chalcocite.**—Grand Manan Island, Charlotte county, N. B.—Coll., L. W. Bailey. (1292.)
- Lot 15, range XIV. of Leeds, Megantic county, Q. (1288.)
- Harvey Hill mine, lot 17, range XV. of Leeds, Megantic county, Q. (1291.)
- Bruce Mines, Lake Huron, district of Algoma, O. (1289.)
- Sphalerite.**—Albion Mines, Pictou county, N. S.—Presented by H. S. Poole, 1891. (6505.)
- Niagara Falls, Welland county, O.—Coll., R. Bell, 1859. (1281.)
- Lot I, range VII. of Marlow, Beauce county, Q.—Coll., W. F. Ferrier, 1891. (1241.)
- Kaministiquia River, district of Thunder Bay, O.—Coll., A. Murray, 1846. (1234.)
- North side (about seven miles inland) of Burrard Inlet, opposite Vancouver, B. C. (6506.)
- Metacinnabarite** (and cinnabar).—Timothy claim, west side of Read Island, north-east coast of Vancouver Island, B. C. (5608.)
- Cinnabar.**—Ebenezer mine, Hector (Kicking Horse) Pass, two and a half miles east of Golden, Rocky Mountains, B. C.—Coll., R. G. McConnell, 1886. (5333.)
- “Rosebush” claim, near the mouth of Copper Creek, Kamloops Lake, B. C.—Coll., E. D. Ingall, 1892. (1632.)
- North side of Homathec River, B. C.—Presented by G. Webb, 1876. (1295.)
- Eastern entrance to Seshart Channel, Barclay Sound, Vancouver Island, B. C.—Presented by J. F. Claxton, 1891. (5991.)
- Millerite.**—Lot 6, range XII. of Orford, Sherbrooke county, Q.—Coll., C. W. Willmott, 1882. (1293.)
- Niccolite.**—3 A mine, township of McGregor, district of Thunder Bay, O.—Presented by Judge Van Norman, 1875. (6517.)
- with gersdorffite.—Lot 12, range III. of Denison, district of Algoma, O.—Coll., A. E. Barlow, 1892. (3478.)
- Pyrrhotite.**—Three miles north of St. Stephen, Charlotte county, N. B. (6527.)
- Lot 19, range II. of Elizabethtown, Leeds county, O.—Coll., B. J. Harrington, 1874. (1296, 1299.)
- Polydymite.**—Vermilion mine, lot 5 (and 6) range IV. of Denison, district of Algoma, O.—Presented by F. L. Sperry, 1891. (5618.)
- Bornite.**—Harvey Hill mine, lot 17, range XV. of Leeds, Megantic county, Q.—Coll., C. W. Willmott, 1882. (1278.)
- Bruce Mines, Lake Huron, district of Algoma, O.—Coll., A. Murray 1860. (1279.)
- Chalcopyrite.**—Polson’s Lake, Antigonish county, N. S.—Coll., A. R. C. Selwyn, 1876. (1309.)

A.—Sulphides—Continued.

- Table-case 50.—
Continued.
- Chalcopyrite.**—Lot 28, range IV. of Ham, Wolf county, Q.—Coll., J. Richardson. (1310.)
— Echo Lake, district of Algoma, O. (1311.)
— with bornite.—Bruce Mines, Lake Huron, district of Algoma, O.—Coll., A. Murray, 1860. (6513.)
- Pyrite.**—From Head of Eckstall Inlet, south of Port Essington, Skeena River, B.C. (5107.)
— Lot 19, range II. of Elizabethtown, Leeds county, O.—Coll., B. J. Harrington, 1874. (1300, 1305.)
— West of Swan Creek, Cumberland county, N. S.—Coll., C. W. Willimott, 1888. (5658.)
— Lot 3, range XIII. of Ascot, Sherbrooke county, Q.—Coll., C. W. Willimott, 1882. (1299.)
— Lot 18, range II. of Wakefield, Ottawa county, Q.—Presented by J. Robertson, 1882. (5473.)
— Lot 12, range I. of Wakefield, Ottawa county, Q.—Coll., C. W. Willimott, 1883. (1277.)
- Table-case 51.
— St. Foy road, Quebec, Quebec county, Q. (1303.)
— Devils Lake, Bedford, Frontenac county, O.—Coll., H. G. Vennor. (1304.)
— Flint Island, Hudson Bay.—Coll., R. Bell, 1877. (6507.)
— Cape Chatte, Gaspé county, Q. (1306.)
— One mile west of Grand Michin, Rimouski county, Q.—Coll., T. C. Weston, 1878. (4531.)
— nodular concretion.—From the Cretaceous shales, Peace River, N. W. T.—Presented by W. Pyke, 1892. (5614.)
- Marcasite.**—Loc. ? (1307.)

B.—Arsenides.

- Smaltite.**—McKim, district of Nipissing, O. (5472.)
Sperrylite.—Vermilion mine, lot 6, range IV. of Denison, district of Algoma, O.—Presented by F. L. Sperry, 1890. (1846.)

C.—Arseno-sulphides.

- Gersdorffite with chalcopyrite.**—Lot 12, range III. of Denison, district of Algoma, O.—Coll., A. E. Barlow, 1892. (2586.)
— with niccolite and chalcopyrite.—Lot 12, range III. of Denison, district of Algoma, O.—Coll., A. E. Barlow, 1892. (5642.)
- Arsenopyrite.**—Gatling mine, lot 9, range VIII. of Marmora, Hastings county, O.—Coll., C. W. Willimott, 1888. (1312.)
— Marmora, Hastings county, O.—Coll., H. G. Vennor, 1870. (6512.)
— Caledonia Gold Field, Queen's county, N. S.—Coll., A. R. C. Selwyn, 1891. (3740.)
- Danaite.**—North half of lot 6, range III. of Graham, District of Algoma, O.—J. L. McLean, 1891. (5621.)

D.—Tellurides.

- Sylvanite with argentite and chalcopyrite.**—Huronian gold mine, lot H 1, township of Moss, district of Thunder Bay, O.—Coll., A. R. C. Selwyn, 1883. (1353.)

E.—Oxysulphides.

- Kermesite.**—Lot 28, range I. of South Ham, Wolfe county, Q.—Coll., C. W. Willimott, 1882. (4514.)

III.—SULPHO-SALTS. — SULPH-ANTIMONITES, SULPH-ARSENITES, [SULPHO-BISMUTHITES.]

A.—Sulph-antimonites.

- Jamesonite.**—Vermont Creek, Middle Fork of the Spilimichene River, B.C.—Presented by W. A. Jowett, 1891. (6518.) Table-case
51.—
Continued.
- “Syenite Bluff” claim, Deception Creek, Middle Fork of the Spilimichene River, East Kootanie, B.C.—Coll., G. M. Dawson, 1889. (6523.)
- Bournonite.**—East half of lot 22, range III. of Darling, Lanark county, O. (3484.)
- Tetrahedrite.**—From near Foster’s Bar, about twenty-three miles above Lytton, Fraser River, B.C. (4621.)
- Lot 3, range IX. of Ascot, Sherbrooke county, Q.—Presented by B. J. Harrington, 1884. (1315.)
- Meneghinite.**—Marble Lake, Barrie, Frontenac county, O. Presented by B. J. Harrington, 1884. (4909.)

B.—Sulph-arsenites.

- Tennantite.**—Lot 2, range IX. of Ascot, Sherbrooke county, Q.—Presented by B. J. Harrington, 1884. (4910.)
- Lot 9, range IX. of Barrie, Frontenac county, O. (5586.)

IV.—HALOIDS. — [CHLORIDES, BROMIDES, IODIDES], FLUORIDES.

Fluorides.

- Fluorite.**—Lot 15, range I. of Templeton, Ottawa county, Q.—Presented by Joseph Brulé, 1889. (1959.)
- Lot 7, range X. of Hull, Ottawa county, Q.—Coll., B. J. Harrington, 1878. (1323.)
- Lot 31, range I. of Villeneuve, Ottawa county, Q.—Coll., C. W. Willimott, 1891. (1318.)
- Lot 5, range I. of Ross, Renfrew county, O.—Coll., C. W. Willimott, 1891. (370.)
- with dolomite.—Barton, near Hamilton, Wentworth county, O.—Presented by Col. Grant. (1319.)
- McKenzie’s River, district of Thunder Bay, O.—Coll., R. Bell, 1875. (1316.)
- Fluor Island, Lake Superior, district of Thunder Bay, O.—Coll., W. E. Logan, 1846. (1320, 1321.)

V.—OXIDES.

A.—Oxides of Silicon.

- Quartz.**—Lot 31, range I. of Villeneuve, Ottawa county, Q.—Coll., C. W. Willimott, 1887. (5490.)

A.—Oxides of Silicon—Continued.

- Table-case 31. **Quartz.**—Lot 12, range XII. of Templeton, Ottawa county, Q.—Coll., B. J. Harrington, 1878. (1381.)
- Continued.*
- amethystine.—Thunder Bay, Lake Superior, O. (1382, 5495.)
 - Digby Neck, Digby county, N.S.—Coll., H. How, 1868. (1379.)
 - with calcite.—Below Grand Valley River, Gaspé county, Q.—Coll., T. C. Weston, 1878. (1374.)
 - Harvey Hill, lot 17, range XV. of Leeds, Megantic county, Q. (1376.)
 - Lot 31, range I. of Portland, Ottawa county, Q.—Presented by J. G. Miller. (4516.)
 - Garthby, Wolfe county, Q.—Coll., C. W. Willimott, 1882. (4517.)
 - McLeod's location, Lake Superior, O.—Coll., W. E. Logan, 1846. (1377.)
 - Copper mine, between Howe Sound and Jervis Inlet, B.C.—Coll., G. M. Dawson, 1885. (5184.)
 - Little Whale River, Hudson Bay.—Coll., R. Bell, 1877. (1739.)
 - Lac aux Iles, Portneuf county, Q.—Coll., A. P. Low, 1891. (5225.)
 - Loc. ? (5638.)
 - Kamloops, B.C.—Coll., G. M. Dawson. (1380.)
- Chalcedony.**—Scot's Bay, King's county, N. S.—Coll., C. W. Willimott, 1883. (1378.)
- Spencer Island, Cumberland county, N. S.—Coll., C. W. Willimott, 1888. (5705.)
 - South side of Masset Inlet, Queen Charlotte Islands, B. C.—Coll., G. M. Dawson, 1878. (4519.)
 - North of Little Whale River, Hudson Bay.—Coll., R. Bell, 1877. (1736.)
 - Belanger's Island, east coast of Hudson Bay.—Coll., R. Bell, 1877. (4518.)
- Prase.**—Mountains at the head of Nicoamen River, B. C.—Coll., G. M. Dawson, 1889. (1260.)
- Agate.**—Two Islands, Cumberland county, N. S.—Coll., C. W. Willimott, 1883. (1384.)
- Big Island, Two Islands, Cumberland county, N. S.—Coll., C. W. Willimott, 1888. (5675.)
 - moss. Two Islands, Cumberland county, N. S.—Coll., C. W. Willimott, 1888. (5679.)
 - Cape Blomidon, King's county, N. S.—Coll., C. W. Willimott, 1883. (1308.)
 - Thunder Bay, Lake Superior, O. (1385.)
 - Fishing Cove Camp, west of Richmond Gulf, Hudson Bay.—Coll., R. Bell, 1877. (1737.)
- Jasper.**—Woodworth Cove, King's county, N. S.—Coll., R. W. Ells, 1876. (4546.)
- Digby Neck, Digby county, N. S.—Coll., H. How, 1868. (1390.)
 - Victoria Harbour, King's county, N. S.—Coll., C. W. Willimott, 1883. (4549.)
 - Two Islands, Cumberland county, N. S.—Coll., C. W. Willimott, 1883. (1389.)
 - Point la Lime, Restigouche county, N. B.—Coll., H. P. Brumell, 1882. (1412.)
 - Rivière Ouelle, Kamouraska $\frac{1}{2}$ county, Q.—Coll., J. Richardson. (1387.)

Table-case
52.

A.—Oxides of Silicon—Continued.

- Jasper.**—Lot 15, range X. of Hull, Ottawa county, Q.—Coll., C. W. Willimott, 1883. (4547.)
 — Glenora Landing, Stikkeen River, B. C.—Presented by Capt. Irvine, 1874. (4520.)
- Pseudomorphous quartz** (after chabazite).—Horse-shoe Cove, Cape d'Or, Cumberland county, N. S.—Coll., C. W. Willimott, 1888. (5670.)
- Silicified wood.**—Long Lake, district of Assiniboia, N. W. T.—Presented by W. Dickson, 1890. (2065.)
 — Ross Coulée, Irvine, district of Assiniboia, N. W. T.—Coll., T. C. Weston. (5494.)
- Opal** var. common.—Savona Mountain, south of Savona station, C. P. R., B. C.—Coll., G. M. Dawson, 1890. (5988.)
 — var. cacholong.—Two Islands, Cumberland county, N. S.—Coll., C. W. Willimott, 1892. (1386.)
 — var. hyalite.—Near Hi-hūm Lake, south of Loon Lake, B. C.—Coll., J. McEvoy, 1888. (1609.)
 — var. tripolite.—Head of Loon Lake, B. C. (5645.)
 — do do Fountain Lake, Amherst, Cumberland county, N. S.—Presented by A. Mackenzie, 1885. (5750.)

Table-case
52.—
Continued.

B.—Oxides of the Metals.

- Senarmontite.**—Lot 28, range I. of South Ham, Wolfe county, Q.—Coll., C. W. Willimott, 1882. (1371.)
- Valentinite.**—Lot 28, range I. of South Ham, Wolfe county, Q.—Coll., C. W. Willimott, 1882. (1327, 4515.)
- Molybdite.**—Lot 22, range II. of Ross, Renfrew county, O.—Coll., C. W. Willimott, 1882. (1732.)
- Tungstite.**—Lot 1, range VII. of Marlow, Beauce county, O.—Coll., W. F. Ferrier, 1891. (1210.)
- Cuprite.**—Spencer Island, Cumberland county, N.S.—Coll., C. W. Willimott, 1888. (5984.)
- Hematite.**—Jacksonville, Carleton county, N.B.—Coll., R. W. Ells, 1874. (1335.)
 — Lot 2, range IV. of Elzevir, Hastings county, O.—Coll., H. G. Vennor. (1336.)
 — Lot 12, range V. of Madoc, Hastings county, O.—Coll., C. W. Willimott, 1885. (1725.)
 — Leeds, Leeds county, O. (1332.)
 — fossiliferous.—Lot 11, range I. of West Flamborough, Wentworth county, O.—Coll., R. Bell, 1861. (1334.)
 — Batchehwahnung Bay, district of Algoma, O.—Coll., T. Macfarlane, 1865. (1333.)
 — Silver Lake, township of McTavish, district of Thunder Bay, O.—Coll., R. Bell, 1875. (1338.)
 — var. specular iron.—Lot 22, range III. of Shefford, Shefford county, Q.—Presented by J. A. Leatch, 1886. (1363.)
 — var. specular iron.—Lot 15, St. Armand West, Missisquoi county, Q.—(1331.)
 — var. specular iron.—Salmon River, Guysborough county, N.S.—Coll., H. Fletcher, 1883. (1367.)
 — var. specular iron.—Lot 28, range VI. of Templeton, Ottawa county, Q.—Coll., B. J. Harrington, 1874. (1294, 1354.)

Table-case
53.

B. —Oxides of the Metals—Continued.

- Table-case 53. —
Continued.
- Hematite.**—var. specular iron, and magnetite.—Lot 28, range VI. of Templeton, Ottawa county, Q.—Coll., B. J. Harrington, 1874. (1325.)
— var. micaceous iron ore.—Sutton, Brome county, Q. (1328.)
- Martite.**—North Mountain, Digby Neck, Digby county, N.S.—Coll., H. How, 1868. (1339, 1340.)
— Dalhousie mine, lot 1, range IV. of Dalhousie, Lanark county, O.—Presented by A. M. Campbell, 1890. (5978.)
- Ilmenite.**—Chegoggin Point, Yarmouth, Yarmouth county, N.S.—Coll., L. W. Bailey, 1892. (1537.)
— St. Urbain, Bay St. Paul, Charlevoix county, Q. (1341.)
— with rutile.—St. Urbain, Bay St. Paul, Charlevoix county, Q.—(1342.)
- Spinel.**—Bathurst, Lanark county, O. (1345, 1346.)
— disseminated through crystalline limestone.—Lot 16, range X. of Portland West, Ottawa county, Q. (4714.)
— Lot 7, range I. of Wakefield, Ottawa county, Q.—Coll., C. W. Willimott, 1882. (4584.)
- Magnetite.**—Lot 11, range V. of Madoc, Hastings county, O.—Coll., C. W. Willimott, 1883. (1351.)
— Portage du Fort, Pontiac county, Q.—Coll., H. G. Vennor. (1347.)
— North Mountain, seven miles west of Digby, Digby county, N.S.—Coll., H. How, 1868. (1348.)
— Mount Hanly, Annapolis county, N.S.—Coll., H. How, 1868. (1352.)
— Lot 9, range IX. of Sutton, Brome county, Q. (1349.)
— Bathurst, Lanark county, O. (1350.)
- Chromite.**—Mount Albert, Shickshock Mountains, Gaspé county, Q.—Coll., J. Richardson, 1858. (1355.)
— with serpentine.—South Ham, Wolfe county, Q.—Coll., J. Richardson. (1356.)
— Lot 21, range II. of South Ham, Wolfe county, Q.—Coll., J. Richardson. (1357.)
- Rutile.**—Lot 12, range XI. of Templeton, Ottawa county, Q.—Coll., B. J. Harrington, 1874. (1358.)
— Sutton, Brome county, Q.—Coll., J. Richardson. (1359.)
- Pyrolusite.**—Markhamville, King's county, N.B. (1364.)
— Teny Cape, Hants county, N.S.—Coll., C. W. Willimott, 1883. (1360, 4539, 4542.)
— Churchill's mine, Walton, Hants county, N.S.—Coll., C. W. Willimott, 1883. (4540.)
- Turgite.**—Teny Cape, Hants county, N.S.—Coll., C. W. Willimott, 1883. (5979.)
- Göthite.**—Black Rock, near the mouth of the Shubenacadie River, Colchester county, N.S.—Coll., B. J. Harrington, 1874. (1365.)
- Manganite.**—Teny Cape, Hants county, N.S.—Coll., C. W. Willimott, 1883. (1317, 4541.)
- Table-case 54.
Limonite.—Acadia Mines, Londonderry, Colchester county, N.S.—Coll., A. R. C. Selwyn, 1872. (379, 2053.)
— var. bog iron ore.—Lac la Tortue, Champlain county, Q.—Coll., H. P. Brumell, 1892. (1322.)
— var. bog iron ore.—St. Vallier, Bellechasse county, Q. (1369.)
— var. bog iron ore.—Darling, Lanark county, O.—Presented by W. H. Wylie. (4545.)

B.—Oxides of the Metals—Continued.

- Limonite.**—var. bog iron ore.—Texada Island, B. C.—Presented by John Campbell, 1891. (5340.)
- Psilomelane.**—Gowland Mountain, Elgin, Albert county, N. B.—Presented by J. L. Harris, 1885. (5040.)
- Wad.**—Dawson Settlement, Hillsborough, Albert county, N. B.—Coll., H. P. Brunell, 1892. (1370.)

Table-case
54.—
Continued.

VI.—OXYGEN SALTS.**I.—Carbonates.**

- Calcite.** mas.—Lot 6, range XII. of Orford, Sherbrooke county, Q.—Coll., C. W. Willimott. (5544.)
- mas. purplish.—Markhamville, King's county, N. B.—Coll., H. P. Brunell, 1891. (1672.)
- mas. yellow.—Lot 14, range XI. of Templeton, Ottawa county, Q.—Coll., B. J. Harrington, 1874. (1664.)
- mas. blue.—Grand Falls, Calumet Island, Pontiac county, Q.—Coll., C. W. Willimott, 1879. (1670.)
- mas. salmon red.—Grand Falls, Calumet Island, Pontiac county, Q.—Coll., C. W. Willimott, 1879. (1676.)
- mas. salmon red.—Lake Clear, Sebastopol, Renfrew county, O.—Presented by J. G. Miller, 1882. (1724.)
- mas. brown.—Point Porphyry, Lake Superior, O. (1671.)
- mas. with native copper.—St. Ignace Island, Lake Superior, O.—Coll., W. E. Logan, 1846. (1655.)
- fibrous.—Lot 8, range IX. of Templeton, Ottawa county, Q.—Coll., C. W. Willimott, 1879. (1667.)
- mas. fetid, with tourmaline.—Lot 10, range XI. of Chatham, Argenteuil county, Q.—Coll., C. W. Willimott, 1882. (1668.)
- crys.—Montreal, Hochelaga county, Q. (1660, 1663.)
- crys.—Partridge Island, Cumberland county, N.S.—Coll., C. W. Willimott, 1888. (5669.)
- crys.—West of Swan Creek, Cumberland county, N.S.—Coll., C. W. Willimott, 1888. (5671.)
- crys.—New Quarries, Hull, Ottawa county, Q.—Coll., H. M. Ami, 1888. (5683.)
- crys.—Five Islands, Colchester county, N.S.—Coll., S. Barlow, 1875. (1654.)
- crys.—Chapel Point, N.B. (1674.)
- crys.—Near Point Porphyry, Lake Superior, O. (1658.)
- crys.—Loc. (?). (1659.)
- crys.—Thunder Bay, Lake Superior, O. (1652.)
- crys.—Beaver mine, township of O'Connor, district of Thunder Bay, Lake Superior, O.—Presented by T. A. Keefer, 1886. (6508.)
- rad.—South side of Alright Island, Magdalen Islands, Q.—Coll., J. Richardson, 1881. (3543.)
- crys.—Belly River, district of Alberta, N.W.T.—Coll., G. M. Dawson, 1881. (4619.)
- var. dog-tooth spar.—Five Islands, Colchester county, N.S.—Coll., S. Barlow, 1875. (1657, 1666.)

I.—Carbonates—Continued.

- Table-case 54.
Continued.
- Calcite.**—var. dog-tooth spar.—Orford nickel mine, lot 6, range XII. of Orford, Sherbrooke county, Q.—Coll., C. W. Willimott. (1669.)
- var. dog-tooth spar.—Niagara Falls, Welland county, O.—Coll., R. Bell, 1859. (1653.)
- var. dog-tooth spar.—Teny Cape, Hants county, N.S.—Coll., C. W. Willimott, 1883. (4622.)
- var. nail-head spar.—Teny Cape, Hants county, N.S.—Coll., C. W. Willimott, 1883. (1661.)
- var. nail-head spar.—Belly River, district of Alberta, N.W.T.—Coll., G. M. Dawson, 1881. (1662.)
- Calcareous tufa.**—Tobique River, above Plaster Rock, Victoria county, N.B.—Coll., W. McInnes, 1886. (6511.)
- Dundas, Wentworth county, O.—Coll., R. Bell, 1859. (1679.)
- Table-case 55.
— Dundas, Wentworth county, O.—Coll., R. Bell, 1859. (1682, 1683, 1684.)
- Cayuga, Haldimand county, O.—Coll., R. Bell, 1859. (1678, 4625.)
- Caledon, Peel county, O. (1677, 1680.)
- Dolomite.**—Lot 10, range IV. of Aldfield, Pontiac county, Q.—Presented by R. H. G. Chapman, 1885. (1685.)
- with calcite.—Niagara Falls, Welland county, O.—Coll., R. Bell, 1859. (1687.)
- Niagara Falls, Welland county, O.—Coll., R. Bell, 1859. (1688, 1690.)
- Ankerite.**—Acton, Bagot county, Q.—Coll., J. Richardson. (1692.)
- Cumberland Brook, Acadia mines, Londonderry, Colchester county, N.S.—Coll., C. W. Willimott, 1883. (1693.)
- Magnesite.**—Lot 17, range IX. of Bolton, Brome county, Q.—Coll., J. Richardson. (1694.)
- Siderite.**—Sutherland's River, Pictou county, N.S.—Coll., B. J. Harrington, 1874. (1697.)
- New Mines, Acadia mines, Londonderry, Colchester county, N.S.—Coll., A. E. Barlow, 1884. (4970.)
- Cow Bay, Cape Breton county, N.S.—Coll., H. Fletcher, 1874. (1708.)
- Flint Island, Hudson Bay.—Coll., R. Bell, 1877. (1733.)
- Clay iron-stone.**—Cow Bay, Cape Breton county, N.S.—Coll., H. Fletcher, 1875. (2091.)
- Edmonton, district of Alberta, N.W.T.—Coll., R. W. Ells, 1875. (1696.)
- Witherite.**—Porcupine (Twin Cities) mine, township of Gillies, district of Thunder Bay, O.—Coll., E. D. Ingall, 1886. (1681.)
- Strontianite.**—Nepean, Carleton county, O.—Presented by C. P. Willimott & Co., 1890. (6500.)
- Cerussite.**—Wellington mine, vicinity of Bear Lake, on the Kaslo-Slocan Road, West Kootanie, B.C.—Presented by Hector McRae, 1892. (5227.)
- Malachite.**—Lot 9, range IX. of Sutton, Brome county, Q.—Coll., C. W. Willimott, 1882. (1686.)
- Azurite** on chalcopyrite.—Killaly's location, Lake Huron, district of Algoma, O. (1699.)
- Dawsonite** on felspathic trap.—From near the western end of McGill College, Montreal, Hochelaga county, Q.—Coll., B. J. Harrington. (1698.)

2.—**Silicates,—Titanates.**A.—**ANHYDROUS SILICATES.**A.—*Disilicates, Polysilicates.*

- Orthoclase**, mas.—From the coast of Labrador. (1495.)
 — mas. River Bayonne, Berthier county, Q. (1485.)
 — mas. River Rouge, Argenteuil county, Q. (1482.)
 — mas. North Crosby, Leeds county, O. (1484.)
 — mas. (aventurine).—Lot 32, range XII. of Sebastopol, Renfrew county, O.—Coll., C. W. Willimott, 1883. (1420.)
 — crys.—Lot 21, range VII. of Buckingham, Ottawa county, Q.—Coll., H. G. Vennor, 1877. (1490.)
 — crys.—Lot 31, range I. of Villeneuve, Ottawa county, Q.—Coll., C. W. Willimott, 1891. (1493.)
 — crys.—Lot 32, range XII. of Sebastopol, Renfrew county, O.—Coll., C. W. Willimott, 1883. (1483, 4827, 4845.)
- Perthite**.—Lot 4, range VI. of North Burgess, Lanark county, O.—Coll., C. W. Willimott, 1883. (1494, 4580.)
- Microcline**.—Lot 31, range I. of Villeneuve, Ottawa county, Q.—Presented by L. H. Shirley, 1886. (5285.)
 — var. Amazonstone.—Hull, Ottawa county, Q.—Presented by Mr. Garrett. (1491.)
 — var. Amazonstone.—Lot 6, range A of Cameron, district of Nipissing, O.—Coll., C. W. Willimott, 1891. (4583.)
- Albite**, mas.—Lot 20, range V. of Buckingham, Ottawa county, Q.—Coll., C. W. Willimott, 1892. (1290.)
 — mas.—North Burgess, Lanark county, O. (1368.)
 — crys.—Lot 31, range I. of Villeneuve, Ottawa county, Q.—Coll., C. W. Willimott, 1891. (5512.)
 — mas.—Lot 31, range I. of Villeneuve, Ottawa county, Q.—Presented by L. H. Shirley, 1886. (4559.)
 — crys.—Rathwell's lot, Bromley, Renfrew county, O.—Coll., C. W. Willimott, 1891. (1489.)
 — crys.—Lot 5, range I. of Ross, Renfrew county, O.—Coll., C. W. Willimott, 1891. (1492.)
 — var. peristerite.—Lot 19, range IX. of Bathurst, Lanark county, O. (1481.)
- Oligoclase**.—Mount Johnson, Iberville county, Q. (1488.)
 — Lot 12, range XVI. of Hull, Ottawa county, Q.—Coll., C. W. Willimott, 1882. (3546.)
 — Lot 8, range III. of Dryden, district of Nipissing, O.—Coll., A. E. Barlow, 1890. (5985.)
- Andesite**.—Château Richer, Montmorency county, Q. (1486.)
- Labradorite**.—Labrador. (1479.)
 — River Peribonka, about thirty miles from the entrance to Lake St. John, Chicoutimi county, Q.—Coll., F. D. Adams, 1884. (4944.)
- Anorthite**.—Yamaska Mountain, Yamaska county, Q. (1487.)
- Huronite**.—Timber limit 90, a quarter of a mile north of Murphy Lake, district of Algoma, O.—Coll., A. E. Barlow, 1891. (1691.)
 — From between Loch Alch and Missinaibi stations, C.P.R., district of Algoma, O.—Coll., B. J. Harrington. (5277.)

Table-case
55.
Continued.

Table-case
56.

2. — **Silicates**, — **Titanates** — *Continued.**B. — Metasilicates.*

- Table-case 56. — *Continued.*
- Hypersthene**, Labrador. — Coll., T. Sterry Hunt, 1869. (1392.)
- (Paulit). — Paul Island, Nain, Labrador. — Coll., R. Bell, 1884. (5274.)
- From the vicinity of Hébertville, township of Labarre, Chicoutimi county, Q. — Coll., F. D. Adams, 1883. (1705.)
- Pyroxene**. — Lot 10, range V. of Grenville, Argenteuil county, Q. (396.)
- Lot 6, range I. of Portland, Ottawa county, Q. (1404.)
- var. diopside. — Lot 6, range XII. of Orford, Sherbrooke county, Q. — Coll., C. W. Willimott, 1883. (5496-5498.)
- var. diopside. — Lot 6, range XII. of Orford, Sherbrooke county, Q. — Coll., C. W. Willimott, 1882. (1403, 1707, 1723.)
- Ste. Anne des Monts, Gaspé county, Q. (1408.)
- Grand Falls, Calumet Island, Pontiac county, Q. (1407, 1413.)
- var. diopside. — Ragged Chute, Madawaska River, Blythfield, Renfrew county, O. (1398.)
- Grenville, Argenteuil county, Q. (1402.)
- Emerald mine, lot 19, range XII. of Buckingham, Ottawa county, Q. — Coll., C. W. Willimott, 1889. (1750.)
- Lot 12, range XV. of Hull, Ottawa county, Q. — Coll., C. W. Willimott, 1890. (6516.)
- South half lot 11, range XV. of Hull, Ottawa county, Q. — Coll., C. W. Willimott, 1870. (247.)
- Lot 18, range II. of Wakefield, Ottawa county, Q. — Coll., C. W. Willimott, 1882. (4522.)
- Table-case 57. — Lot 18, range II. of Wakefield, Ottawa county, Q. — Coll., C. W. Willimott, 1883. (4524.)
- twin crystal. — Lot 18, range II. of Wakefield, Ottawa county, Q. — Coll., C. W. Willimott, 1883. (6514.)
- Lot 18, range II. of Wakefield, Ottawa county, Q. — Coll., C. W. Willimott, 1883. (6515.)
- Lot 6, range I. of Wakefield, Ottawa county, Q. — Coll., C. W. Willimott, 1882. (562.)
- Lot 7, range I. of Wakefield, Ottawa county, Q. — Coll., C. W. Willimott. (3326.)
- Haycock mine, lot 28, range VI. of Templeton, Ottawa county, Q. — Coll., B. J. Harrington, 1878. (1414.)
- Templeton, Ottawa county, Q. — Coll., B. J. Harrington, 1878. (1400.)
- Lot 32, range XII. of Sebastopol, Renfrew county, O. — Coll., C. W. Willimott, 1884. (1409, 4847, 4861.)
- Island D, Lake Clear, Sebastopol, Renfrew county, O. — Presented by J. G. Miller, 1882. (4521, 4525.)
- Toomah Bay, Bob's Lake, Bedford, Frontenac county, O. — Presented by W. J. Morris. (1406.)
- Lot 2, range IX. of North Burgess, Lanark county, O. (1399.)
- Bathurst, Lanark county, O. (1401.)
- var. diallage. — Orford, Sherbrooke county, Q. (1395.)
- var. augite. — Montreal, Hochelaga county, Q. (1416.)
- Wollastonite**. — Lot 10, range V. of Grenville, Argenteuil county, Q. — Coll., C. W. Willimott, 1878. (1396.)
- Lot 7, range I. of Wakefield, Ottawa county, Q. — Coll., C. W. Willimott, 1891. (1480.)

2.—Silicates,—Titanates—Continued.*B.—Metasilicates.—Continued.*

- Pectolite.**—McKellar's (Cathcart) Point, Lake Superior, O.—Coll., W. E. Logan, 1846. (1517.) Table-case 57.—
- Amphibole** (hornblende).—From the vicinity of Foster's Bar, about 23 miles above Lytton, Fraser River, B.C. (1270.) *Continued.*
- (hornblende).—Lot 17, range IX. of Templeton, Ottawa county, Q. (1423.)
- (hornblende).—Grand Falls, Calumet Island, Pontiac county, Q. (1418.)
- (hornblende).—Blythfield, Renfrew county, O. (1419.)
- (hornblende).—Lot 7, range IX. of Ross, Renfrew county, O.—Coll., C. W. Willimott, 1883. (4535.)
- (hornblende).—Lot 12, range XVI. of Hull, Ottawa county, Q.—Coll., C. W. Willimott, 1882. (4554.)
- (hornblende).—Lot 17, range I. of Wakefield, Ottawa county, Q.—Coll., C. W. Willimott, 1882. (1421.)
- (hornblende).—Lot 32, range XII. of Sebastopol, Renfrew county, O.—Coll., C. W. Willimott, 1882. (1410.)
- (hornblende).—Lot 21, range IX. of Bedford, Frontenac county, O.—Coll., H. G. Vennor. (1426.)
- (hornblende).—Eight portage, Wabinoch River, Lake Nipigon, O.—Coll., R. Bell, 1871. (1429.)
- var. tremolite.—North Burgess, Lanark county, O. (1427.)
- var. tremolite.—Lot 23, range IV. of Ross, Renfrew county, O.—Coll., C. W. Willimott, 1883. (1428, 5501.)
- var. raphiilite.—West half of lot 26, range XII. of Bathurst, Lanark county, O.—Coll., C. W. Willimott, 1892. (1276.)
- var. raphilite.—Dalhousie, Lanark county, O. (1430.)
- var. actinolite.—Frampton, Dorchester county, Q. (2391.)
- var. actinolite.—Westneath, Renfrew county, O. (1298.)
- var. nephrite.—Near Miles Cañon, Lewis River, a tributary of the Yukon River, N.W.T.—Coll., W. Ogilvie, 1887. (2106.)
- var. asbestos.—Potton, Brome county, Q. (1431.)
- var. asbestos.—Marmora, Hastings county, O. (1432.)
- var. mountain leather.—Beaver mine, township of O'Connor, district of Thunder Bay, O. (254.)
- var. mountain leather.—Lake Girard mine, lot 23, range II. of Wakefield, Ottawa county, Q.—Presented by T. J. Watters, 1892. (5284.)
- var. mountain cork.—Emerald mine, lot 19, range XII. of Buckingham, Ottawa county, Q.—Coll., C. W. Willimott, 1889. (5471.)
- (uralite).—Lot 23, range XIII. of Templeton, Ottawa county, Q.—Presented by J. G. Miller, 1882. (4527.)
- Beryl.**—Brassard, Berthier county, Q.—Presented by D. Aikman, 1886. (1314.)
- North shore of Lake Kenogami, Chicoutimi county, Q.—Coll., F. D. Adams, 1884. (4945.)
- De Maisonneuve, Berthier county, Q.—Coll., N. J. Giroux, 1892. (5510.) Table-case 58.

C.—Orthosilicates.

- Sodalite.**—Mount Royal (Reservoir extension), Montreal, Hochelaga county, Q.—Presented by B. J. Harrington, 1886. (1478.)

2.—Silicates,—Titanates—Continued.

C.—Orthosilicates.—Continued.

- Table-case 58.—
Continued.
- Sodalite.**—Vicinity of Ice River, a tributary of the Beaver-foot River, south of Kicking Horse Pass, Rocky Mountains, B.C.—Coll., G. M. Dawson, 1884. (1476.)
- Lot 29, range XIII. of Dungannon, Hastings county, O. (1633.)
- Garnet.**—Orford, Sherbrooke county, Q. (4556.)
- var. grossularite.—Lot 7, range I. of Wakefield, Ottawa county, Q.—Coll., C. W. Willimott, 1884. (1451, 4853.)
- var. grossularite.—Lot 12, range I. of Litchfield, Pontiac county, Q. (1253.)
- var. essonite.—Lot 12, range I. of Wakefield, Ottawa county, Q.—Coll., C. W. Willimott, 1884. (4573.)
- var. almandite.—Chegoggin Point, west side, Yarmouth, Yarmouth county, N.S.—Presented by J. D. Huntingdon, 1892. (1275.)
- var. almandite.—Garnet Creek, Stikeene River, B.C.—Coll., A. R. C. Selwyn. (1452.)
- var. almandite, in micaceous schist.—Garnet Creek, Stikeene River, B.C.—Coll., A. R. C. Selwyn. (2813.)
- North-east side of Bay St. Paul, Charlevoix county, Q.—Coll., S. Barlow, 1857. (1446, 1449.)
- Marinora, Hastings county, O. (1450.)
- Barrie, Frontenac county, O. (1448.)
- var. spessartite.—Lot 31, range I. of Villeneuve, Ottawa county, Q.—Coll., C. W. Willimott, 1891. (1269.)
- var. spessartite, in muscovite.—Lot 31, range I. of Villeneuve, Ottawa county, Q.—Coll., C. W. Willimott, 1891. (5339.)
- var. andradite.—Cawood, Pontiac county, Q. (284.)
- var. andradite.—Vicinity of Foster's Bar, about twenty-three miles above Lytton, Fraser River, B.C. (5554.)
- var. andradite.—Malaspina mine, north-east side of Texada Island, B.C.—Coll., G. M. Dawson, 1885. (1474, 5500.)
- var. andradite.—From near the head of Barclay Sound, Vancouver Island, B.C. (5986.)
- chromiferous.—Lot 6, range XII. of Orford, Sherbrooke county, Q.—Coll., C. W. Willimott, 1882. (441.)
- chromiferous.—Lot 6, range XII. of Orford, Sherbrooke county, Q.—Coll., A. R. C. Selwyn, 1879. (1445.)
- chromiferous.—South Ham, Wolfe county, Q.—Coll., A. R. C. Selwyn. (6522.)
- Chrysolite.**—Mount Albert, Shickshock Range, Gaspé county, Q. (1434.)
- Montarville, Chambly county, Q. (1436.)
- Rougemont, Rouville county, Q. (1425.)
- Scapolite.**—Lot 20, range VII. of Lansdowne, Leeds county, O. (1473.)
- Lot 3, range III. of the Augmentation of Grenville, Argenteuil county, Q.—Coll., C. W. Willimott, 1885. (4561.)
- Augmentation of Grenville, Argenteuil county, Q. (1467.)
- Lot 21, range XII. of Templeton, Ottawa county, Q.—Coll., C. W. Willimott, 1879. (1469, 1472.)
- Lot 14, range XII. of Templeton, Ottawa county, Q.—Coll., B. J. Harrington, 1874. (1471.)
- Lot 31, range IX. of Low, Ottawa county, O.—Coll., C. W. Willimott, 1891. (442.)
- Calumet Portage, Pontiac county, Q. (1475.)
- Table-case 59.

2.—Silicates,—Titanates—Continued.*C.—Orthosilicates.—Continued.*

- Scapolite.**—Wakefield, Ottawa county, Q. (4560.)
 — Lot 7, range IX. of Ross, Renfrew county, O.—Coll., C. W. Willimott, 1883. (231.)
 — Lake Clear, Sebastopol, Renfrew county, O.—Presented by J. G. Miller, 1882. (4581.)
 — Lot 13, range VI. of Ross, Renfrew county, O.—(1470.)
- Wilsonite.**—Lot 2, range IX. of North Burgess, Lanark county, O. (1477.)
 — Lot 10, range X. of Templeton, Ottawa county, Q.—Coll., C. W. Willimott, 1882. (4576.)
 — Lot 23, range XIII. of Templeton, Ottawa county, Q.—Coll., B. J. Harrington, 1874. (5511.)
 — Lot 23, range XIII. of Templeton, Ottawa county, Q.—Presented by J. G. Miller, 1882. (4578.)
- Cacoclasite.**—Lot 7, range I. of Wakefield, Ottawa county, Q.—Coll., C. W. Willimott, 1882. (4537.)
- Vesuvianite.**—Frye's (Cailiff's) Island, Charlotte county, N.B. (1443.)
 — Lot 17, range XII. of Templeton, Ottawa county, Q.—Coll., B. J. Harrington, 1874. (1440.)
 — Lot 12, range I. of Wakefield, Ottawa county, Q.—Coll., C. W. Willimott, 1882. (1442, 4555.)
- Zircon.**—Lot 10, range V. of Grenville, Argenteuil county, Q. (1439.)
 — Templeton, Ottawa county, Q.—Presented by F. W. Henshaw. (1437.)
 — Lot 31, range X. of Sebastopol, Renfrew county, O.—Coll., C. W. Willimott, 1883. (4832, 4833.)
 — (twin crystal).—Lot 31, range X. of Sebastopol, Renfrew county, O.—Coll., C. W. Willimott, 1883. (4532.)
 — Brudenell, Renfrew county, O.—Coll., C. W. Willimott, 1883. (4533.)
- Andalusite.**—St. Stephen, Charlotte county, N.B. (1512.)
 — var. chiasolite.—Two miles south of Lawlors Lake, on the new road to Isaacs Harbour, Guysborough county, N.S.—Coll., E. R. Faribault, 1887. (5517.)
 — and staurolite.—Crow's Nest mine, St. Mary's, Guysborough county, N.S.—Coll., E. R. Faribault, 1887. (5516.)
- Fibrolite.**—Lot 9, range III. of Dryden, district of Nipissing, O.—Coll., A. E. Barlow, 1890. (1326.)
- Cyanite.**—Lot 9, range III. of Dryden, district of Nipissing, O.—Coll., A. E. Barlow, 1890. (1329, 5145.)
- Epidote.**—New River Bridge, Charlotte county, N.B.—Coll., G. F. Mathew, 1876. (4558.)
 — Clifton, parish of Kingston, King's county, N.B.—Coll., L. W. Bailey, 1870. (1458.)
 — Shickshock Mountains, Gaspé county, Q. (1454.)
 — Renfrew county, O. (4557.)
 — Mouth of river two miles south of Poplar River, Lake Nipigon, district of Thunder Bay, O.—Coll., P. McKellar, 1869. (1455.)
 — North shore of Upper Lake Abittibi, O.—Coll., W. McOuat, 1872. (1456.)
 — Second point north of Richmond Gulf, Hudson Bay.—Coll., R. Bell, 1877. (1730.)

2.—**Silicates, —Titanates**—Continued.C.—*Orthosilicates.*—Continued.

- Table-case 59—
Continued.
Table-case 60.
- Epidote.**—South shore of Johnstone Strait, opposite Forward Bay, Vancouver Island, B.C.—Coll., D. B. Dowling, 1885. (6510.)
— Harrison Lake, B.C.—Coll., A. Bowman, 1884. (6509.)
- Axinite.**—One mile and a half south of Little Whale River, east coast of Hudson Bay.—Coll., R. Bell, 1877. (1457.)
- Prehnite.**—Lake Superior, O.—Coll., W. E. Logan, 1846. (1519-1521.)
— Michipicoten Island, Lake Superior, O. (1522.)

D.—*Subsilicates.*

- Chondrodite.**—South Crosby, Leeds county, O. (1501.)
- Ilvaite.**—Vicinity of Ottawa, Carleton county, O. (1453.)
— From near the head of Barclay Sound, Vancouver Island, B.C. (1301.)
- Tourmaline.**—McGregor's quarry, Lachute, Argenteuil county, Q. (1505.)
— Lot 10, range XI. of Chatham, Argenteuil county, Q. (1405.)
— Templeton, Ottawa county, Q. (1901.)
— Grand Falls, Calumet Island, Pontiac county, Q. (1506.)
— Near Hunterstown, Maskinongé county, Q. (1735.)
— Lot 17 or 18, range XIV. of Hull, Ottawa county, Q.—Coll., C. W. Willimott, 1891. (1502, 1503.)
— Lot 26, range VII. of Wakefield, Ottawa county, Q.—Presented by L. H. Shirley, 1886. (1509.)
— Wakefield, Ottawa county, Q.—Coll., C. W. Willimott, 1888 (5695, 5697 to 5702.)
— Lot 31, range I. of Villeneuve, Ottawa county, Q.—Coll., C. W. Willimott, 1887. (5514, 5515.)
— Bathurst, Lanark county, O. (1507.)
— Lot 27, range III. of Ross, Renfrew county, O.—Coll., C. W. Willimott, 1883. (1324.)
— Lot 27, range III. of Ross, Renfrew county, O.—Coll., J. Richardson, 1853. (1508.)
— Pakenham, Lanark county, O. (1504.)
— Fitzroy, Carleton county, O. (1510.)
— Madoc, Hastings county, O. (1511.)
- Staurolite.**—Moore's Mills, Charlotte county, N.B.—Coll., L. W. Bailey, 1870. (1516.)
— Carleton, Shelburne county, N.S.—Coll., L. W. Bailey, 1890. (222.)
— One hundred yards south of Crow's Nest mine, St. Mary's, Guysborough county, N.S.—Coll., E. R. Faribault, 1886. (5393.)

B.—HYDROUS SILICATES.

A.—*Zeolite division.*

- Apophyllite.**—Sheffield Vault, King's county, N.S.—Coll., C. W. Willimott, 1883. (4594.)
— Cape Blomidon, King's county, N.S.—Coll., C. W. Willimott, 1883. (4565.)
— with stilbite.—Blomidon, King's county, N.S.—Coll., C. W. Willimott, 1883. (4587.)
— with heulandite.—Blomidon, King's county, N.S.—Coll., C. W. Willimott, 1883. (4588.)
— Spar Island, Lake Superior, district of Thunder Bay, O. (1528.)

2.—Silicates,—Titanates—Continued.*A.—Zeolite division.—Continued.*

- Steeelite.**—Cape Split, King's county, N.S.—Coll., C. W. Willimott, 1883. (4592.) Table-case 61.
- Heulandite.**—Blomidon, King's county, N.S.—Coll., C. W. Willimott, 1883. (1555, 1556.)
- Two Islands, Cumberland county, N.S.—Coll., C. W. Willimott, 1888. (5692.)
- West side of Horseshoe Cove, Cumberland county, N.S.—Coll., C. W. Willimott, 1888. (5647.)
- Dalhousie, Restigouche county, N.B.—Coll., R. W. Ells, 1881. (1557.)
- Harmotome.**—Beaver mine, township of O'Connor, district of Thunder Bay, O.—Coll., A. C. Lawson. (1497.)
- Stilbite.**—Cape d'Or, Cumberland county, N.S.—Coll., R. W. Ells, 1876. (1546, 1548, 1549.)
- Blomidon, King's county, N.S.—Coll., C. W. Willimott, 1883. (1544, 1547, 4595.)
- Partridge Island, Cumberland county, N.S.—Coll., C. W. Willimott, 1883. (5520.)
- with calcite.—Partridge Island, Cumberland county, N.S.—Coll., R. W. Ells, 1876. (1542.)
- with analcite.—Partridge Island, Cumberland county, N.S.—Coll., C. W. Willimott, 1888. (5689.)
- Port George, Annapolis county, N.S.—Coll., C. W. Willimott, 1883. (4601.)
- Victoria Harbour, King's county, N.S., Coll., C. W. Willimott, 1883. (1543, 1561.)
- Victoria Harbour, King's county, N.S.—Coll., C. W. Willimott, 1883. (4586, 4589, 4600.)
- Black Rock, King's county, N.S.—Coll., C. W. Willimott, 1883. (1545.)
- Sheffield Vault, King's county, N.S.—Coll., C. W. Willimott, 1883. (4599.)
- West side of Horseshoe Cove, Cumberland county, N.S.—Coll., C. W. Willimott, 1888. (5648.)
- West side of Fog Whistle, Cape d'Or, Cumberland county, N.S.—Coll., C. W. Willimott, 1888. (5651.)
- Bennet's Brook, east of Horseshoe Cove, Cumberland county, N.S.—Coll., C. W. Willimott, 1888. (5652.)
- Hall's Harbour, King's county, N.S.—Coll., C. W. Willimott, 1883. (1551.)
- Salmon River, nine miles above Grand Prairie, B.C.—Coll., G. M. Dawson, 1877. (1541.)
- Digby Neck, Digby county, N.S.—Coll., L. W. Bailey, 1892. (1527, 1530.)
- Laumontite.**—West side of Fog Whistle, Cape d'Or, Cumberland county, N.S.—Coll., C. W. Willimott, 1888. (5713.)
- Black Rock, King's county, N.S.—Coll., C. W. Willimott, 1883. (5519.)
- Two Islands, Cumberland county, N.S.—Coll., C. W. Willimott, 1892. (237.)
- Chabazite.**—Two Islands, Cumberland county, N.S.—Coll., C. W. Willimott, 1888. (5656, 5657, 5690.)
- Between Cape Spencer and Cape d'Or, Cumberland county, N.S.—Coll., S. Barlow, 1878. (1539.)

2.—**Silicates,—Titanates**—Continued.A.—*Zeolite division.*—Continued.

- Table-case 62. **Chabazite.**—Two Islands, Cumberland county, N.S.—Coll., C. W. Willimott, 1892. (4593.)
- with heulandite.—Two Islands, Cumberland county, N.S.—Coll., C. W. Willimott, 1888. (5655.)
- West side of Fog Whistle, Cape d'Or, Cumberland county, N.S.—Coll., C. W. Willimott, 1888. (5653, 5654.)
- West of Swan Creek, Cumberland county, N.S.—Coll., C. W. Willimott, 1888. (5650.)
- Swan Creek, Cumberland County, N.S.—Coll., C. W. Willimott, 1883. (4564.)
- Five Islands, Colchester county, N.S.—Coll., C. W. Willimott, 1892. (4596.)
- with stilbite.—Bennet's Brook, east of Horseshoe Cove, Cumberland county, N.S.—Coll., C. W. Willimott, 1888. (5686.)
- Salmon River, nine miles above Grand Prairie, B.C.—Coll., G. M. Dawson, 1877. (1538.)
- Gmelinite.**—Big Island, Two Islands, Cumberland county, N.S.—Coll., C. W. Willimott, 1888. (5649.)
- Analcite.**—Blomidon, King's county, N.S.—Coll., R. W. Ells, 1876. (1534.)
- West of Horseshoe Cove, Cumberland county, N.S.—Coll., C. W. Willimott, 1888. (5667.)
- Two Islands, Cumberland county, N.S.—Coll., C. W. Willimott, 1888. (5668.)
- Two Islands, Cumberland county, N.S.—Coll., C. W. Willimott, 1883. (1533, 1535, 1536.)
- Natrolite.**—Cape Split, King's county, N.S.—Coll., R. W. Ells, 1876. (1531, 1532.)
- East of Stronach Brook, King's county, N.S.—Coll., C. W. Willimott, 1883. (1526.)
- Stronach Mountain, King's county, N.S.—Coll., C. W. Willimott, 1883. (4566.)
- Port George, Annapolis county, N.S.—Coll., C. W. Willimott, 1883. (4567.)
- Bennet's Brook, east of Horseshoe Cove, Cumberland county, N.S.—Coll., C. W. Willimott, 1888. (5685.)
- Cape d'Or, Cumberland county, N.S. (1523.)
- Five Islands, Colchester county, N.S.—Coll., C. W. Willimott, 1892. (1734, 4526.)
- Montreal, Hochelaga county, Q.—Coll., B. J. Harrington. (1525.)
- Scolecite.**—Black Lake, Coleraine, Megantic county, Q.—Presented by J. T. Donald, 1890. (2104.)
- Thompsonite,** with analcite.—Hall's Harbour, King's county, N.S.—Coll., C. W. Willimott, 1883. (1524.)

B.—*Mica division.*

- Muscovite.**—Villeneuve mica mine, lot 31, range I. of Villeneuve, Ottawa county, Q.—Coll., C. W. Willimott, 1891. (5504.)
- rose-coloured.—Villeneuve mica mine, lot 31, range I. of Villeneuve, Ottawa county, Q.—Coll., C. W. Willimott, 1890. (5503.)
- in which are embedded, distorted and more or less flattened, (in the direction of the cleavage planes of the mica) crystals of spessartite.—Villeneuve mica mine, lot 31, range I. of Villeneuve, Ottawa county, Q.—Presented by W. A. Allan, 1887. (5444.)

2.—Silicates,—Titanates—Continued.*B.—Mica division.—Continued.*

- Muscovite.**—Mattawa, district of Nipissing, O. (5506.) Table-case
63.
- Lot 8, range VII. of Masham, Ottawa county, Q.—Coll., C. W. Willimott, 1891. (1411.)
- with lenticular shaped (in the direction of the cleavage planes of the mica) inclusions of white sub-transparent quartz.—Yeo's Island, Upper St. Maurice River, Portneuf county, Q. (5505.)
- Lot 4, range XI. of Miller, Frontenac county, O.—Presented by E. G. Powell. (5377.)
- chromiferous.—Lot 12, range VIII. of Sutton, Brome county, Q.—Coll., T. S. Hunt. (1695.)
- chromiferous.—Matawatchan, Renfrew county, O. (1424.)
- Dyssontrite.**—Arisaig, Antigonish county, N.S. (1601.)
- Parophite.**—St. Nicholas, Lévis county, Q. (1602.)
- Wilsonite.**—Lot 2, range IX. of North Burgess, Lanark county, O. (240.)
- Cookeite.**—Wait-a-bit Creek, Columbia River, about two miles north of Donald, B.C.—Coll., J. J. Driscoll. (1417.)
- Biotite.**—Lot 13, range VI. of Ross, Renfrew county, O.—Coll., C. W. Willimott, 1883. (1459.)
- Lot 32, range XII. of Sebastopol, Renfrew county, O.—Coll., C. W. Willimott, 1891. (4572.)
- hydrous.—North-east Harbour, Shelburne county, N.S.—Coll., L. W. Bailey, 1891. (1550.)
- Phlogopite.**—Lot 2, range X. of Grenville, Argenteuil county, Q.—Coll., W. E. Logan, 1853. (1464.)
- a section of a crystal, in which there occurs a small prism of the same mineral, the vertical axis of which is parallel to the cleavage planes of the enclosing mica.—Lot 15, range VIII. of Templeton, Ottawa county, Q.—Coll., B. J. Harrington, 1878. (1460.)
- North half of lot 10, range V. of Hull, Ottawa county, Q.—Presented by E. B. Haycock, 1892. (1461.)
- in which is embedded, parallel to the cleavage planes of the mica, some highly distorted octahedra of pyrite.—Lot 10, range XII. of Hull, Ottawa county, Q.—Presented by T. F. Nellis, 1892. (1422.)
- in which is embedded, parallel to the cleavage planes of the mica, a sharply defined hexagonal plate of molybdenite.—Lot 10, range XII. of Hull, Ottawa county, Q.—Presented by T. F. Nellis, 1892. (1587.)
- a plate of, upon the face of which, and almost but not quite covering the same, there occurs a thin layer of pale apple-green, fine fibrous, radiated (arborescent-like) actinolite.—Lot 10, range XII. of Hull, Ottawa county, Q.—Presented by A. Trowse, 1892. (6521.)
- with inclusions of purple fluorite and pyroxene.—South half of lot 9, range XV. of Hull, Ottawa county, Q. (4571.)
- with inclusions of light blue crystalline calcite.—Lot 7, range I. of Wakefield, Ottawa county, Q.—Coll., C. W. Willimott, 1884. (4936.)
- Lot 7, range I. of Wakefield, Ottawa county, Q.—Coll., C. W. Willimott, 1882. (4841.)
- Lot 18, range II. of Wakefield, Ottawa county, Q.—Coll., C. W. Willimott, 1883. (1468, 4840.)

2.—Silicates,—Titanates—Continued.*B.—Mica division.—Continued.*

- Table-case
64. **Phlogopite.**—Calumet Island, Pontiac county, Q.—Coll., C. W. Willimott, 1879. (1466.)
 twin crystals.—Lot 7, range I. of Wakefield, Ottawa county, Q.—Coll., C. W. Willimott, 1884. (1960.)
 North Burgess, Lanark county, O.—Coll., H. G. Vennor. (1463.)
 — in which is embedded, parallel to the cleavage planes of the mica, a prism of apatite.—Lot 4, range VIII. of North Burgess, Lanark county, O. (1612.)
 — Otty Lake, North Burgess, Lanark county, O. (4570.)
Lepidomelane.—Lot 14, range X. of Marmora, Hastings county, O. (6544.)
Chloritoid.—Harvey Hill mine, lot 17, range XV. of Leeds, Megantic county, Q.—Coll., C. W. Willimott, 1882. (1603.)
 — Sutton, Brome county, Q. (1604.)
Ripidolite ?—Lot 24, range XII. of Buckingham, Ottawa county, Q.—Coll., J. F. Torrance, 1883. (5583.)
Chlorite.—Harvey Hill mine, lot 17, range XV. of Leeds, Megantic county, Q. (1623.)
 — Sutton, Brome county, Q. (1598.)
 — Lot 4, range V. of Brome, Brome county, Q.—Coll., J. Richardson. (1599.)
 — West Bay, Lake Nipissing, O.—Presented by P. H. Colton. (5513.)
Delessite ?—Petite Passage, Digby Neck, Digby county, N.S.—Coll., H. How, 1868. (1600.)

C.—Serpentine and talc division.

- Serpentine.**—Pisarinco Cove, St. John county, N.B.—Coll., T. S. Hunt, 1869. (1590, 1591.)
 — Mount Albert, Shickshock Range, Gaspé county, Q.—Coll., J. Richardson, 1858. (1589.)
 North-east corner of lot 10, range XVIII. of Orford, Sherbrooke county, Q.—Coll., J. Richardson. (18, 1584.)
 Lot 10, range IX. of Bolton, Brome county, Q.—Coll., C. W. Willimott, 1882. (4602.)
 --- pseudomorph after actinolite.—Big Island, Lake Nicolet, South Ham, Wolfe county, Q.—Coll., C. W. Willimott, 1882. (1570.)
 Lake Nicolet, South Ham, Wolfe county, Q. (1593.)
 --- var. porcellophite.—Fenwick and Sclater's asbestos mine, Coleraine, Megantic county, Q.—Coll., R. W. Ells, 1889. (19.)
 --- Lot 16, range III. of Grenville, Argenteuil county, Q. (1586, 1588.)
 East end of lot 28, range VIII. of Stukely, Shefford county, Q.—Coll., J. Richardson. (1571.)
 --- Shipton, Richmond county, Q.—Coll., J. Richardson. (1574.)
 --- Grand Falls, Calumet Island, Pontiac county, Q.—Coll., C. W. Willimott, 1879. (1575, 1577, 1578.)
 --- Calumet Portage, Calumet Island, Pontiac county, Q.—Coll., C. W. Willimott, 1879. (1580, 1581, 1582.)
 --- Thirty Island Lake, lot 6, range III. of Bedford, Frontenac county, O.—Coll., C. W. Willimott. (4603.)
 --- Station B, Pelly River, a branch of the Yukon River, N.W.T.—Coll., G. M. Dawson, 1877. (5549.)
 --- North-east side of Texada Island, three miles from north-west end, B.C.—Coll., J. Richardson, 1873. (1594.)

2.—Silicates,—Titanates—Continued.*C.—Serpentine and talc division.*

- Serpentine.**—var. chrysotile.—Johnson's mine, Thetford, Megantic county, Q.—Coll., C. W. Willimott, 1882. (1566.) Table-case 64.—
 — var. chrysotile.—Shipton, Richmond county, Q.—Coll., J. Richardson. (1569.) Continued.
 — var. chrysotile.—Broughton, Beauce county, Q.—Presented by Dr. Reed, 1883. (4568.)
 — var. chrysotile.—Lot 14, range VII. of Broughton, Beauce county, Q.—Presented by Dr. Reed, 1882. (168, 4569.) Table-case 65.
 — var. chrysotile.—Lot 2, range VII. of Potton, Brome county, Q.—Coll., J. Richardson. (4591.)
 — var. chrysotile.—Lot 17, range V. of Potton, Brome county, Q.—Coll., A. R. C. Selwyn, 1879. (1727.)
 — var. chrysotile.—Near Lake Nicolet, South Ham, Wolfe county, Q.—Coll., A. R. C. Selwyn, 1879. (1728.)
 — var. chrysotile.—Lot 11, range VII. of Templeton, Ottawa county, Q.—Coll., B. J. Harrington, 1878. (1567.)
 — var. picrolite.—Big Island, Lake Nicolet, South Ham, Wolfe county, Q.—Coll., C. W. Willimott, 1882. (1729.)
 — var. picrolite.—Orford, Sherbrooke county, Q. (1572.)
 — var. picrolite.—Memphremagog mine, Bolton, Brome county, Q.—Coll., C. W. Willimott, 1892. (4608.)
 — var. picrolite.—Lot 18, range VI. of Duhamel, Pontiac county, Q.—Coll., N. J. Giroux, 1890. (1837.)
 — var. marmolite.—Orford, Sherbrooke county, Q. (1573.)
- Aphrodite.**—Grenville, Argenteuil county, Q. (1564.)
- Talc.**—Lot 17, range V. of Potton, Brome county, Q. (1558.)
 — Elizabethtown, Leeds county, O. (1560.)
 — Lot 24, range II. of Clarendon, Frontenac county, O. (1583.)
- Steatite.**—Potton, Brome county, Q. (1562.)
 — Brome, Brome county, Q. (1563.)
- Rensselaerite.**—Charleston Lake, Leeds county, O. (1559.)
- Pyralloite.**—Lot 8, range VI. of Ramsay, Lanark county, O.—Coll., C. W. Willimott, 1887. (5492.)
- Saponite.**—St. George or Hog Island, Richmond Bay, north coast of Prince Edward Island. 1595.
- Glauconite.**—Island of Orleans, River St. Lawrence, Q. (1565.)

D.—Kaolin division.

- Kaolinite.**—Wentworth, Hants county, N.S.—Presented by S. H. Sweet, 1875. (1597.)
 — Grande Frenière, county of Two Mountains, Q. (1592.)
 — Lot 25, range V. of Acton, Bagot county, Q.—Presented by John Stewart. (213.)
- Pholerite.**—From just below the Chaudière Falls, Levis county, Q.—Coll., T. S. Hunt, 1854. (1596.)

E.—Concluding division.

- Hisingerite.**—Lot 19, range II. of Elizabethtown, Leeds county, O. (6545.)
 Rep. Geol. Can., 1874-75, page 315.

2.—**Silicates, Titanates**—*Continued.*C.—**TITANO-SILICATES, [TITANATES].**

Table-case 65.— <i>Continued.</i>	Titanite. —Brome, Brome county, Q. (1515.)
—	Lot 10, range V. of Grenville, Argenteuil county, Q.—Coll., C. W. Willimott. (1514.)
—	Lot 8, range XIV. of Hull, Ottawa county, Q.—Coll., C. W. Willimott, 1882. (1513.)
—	Lot 7, range I. of Wakefield, Ottawa county, Q.—Coll., C. W. Willimott, 1882. (214.)
—	South Sherbrooke, Lanark county, O.—Presented by W. J. Morris, 1882. (4585.)
—	Island D, Lake Clear, Sebastopol, Renfrew county, O.—Presented by J. G. Miller, 1882. (4562, 4563, 5518.)
—	Island D, Lake Clear, Sebastopol, Renfrew county, O.—Coll., C. W. Willimott, 1883. (4831.)
—	Lot 31, range X. of Sebastopol, Renfrew county, O.—Coll., C. W. Willimott, 1883. (4536.)

3.—**Niobates, tantalates.**

Samarskite.—Lots 1 and 2, range II. of Maisonneuve, Berthier county, Q.—Presented by D. Aikman and W. F. Ferrier. (4943.)

4.—**Phosphates, [arsenates, vanadates, antimonates],—nitrates.**

Table-case 66.	Monazite. —Lot 31, range I. of Villeneuve, Ottawa county, Q. (5521.)
—	Apatite. —Lot 10, range XI. of Templeton, Ottawa county, Q.—Coll., C. W. Willimott, 1882. (244.)
—	Lot 11, range XI. of Templeton, Ottawa county, Q.—Coll., C. W. Willimott, 1882. (1607.)
—	in calcite.—Turner's Island, Lake Clear, Sebastopol, Renfrew county, O.—Coll., C. W. Willimott, 1883. (1717, 4830.)
—	Lot 9, range X. of Templeton, Ottawa county, Q.—Coll., C. W. Willimott, 1882. (1393.)
—	with inclusions of calcite.—Templeton, Ottawa county, Q.—Coll., B. J. Harrington, 1878. (1608.)
—	Templeton, Ottawa county, Q.—Coll., B. J. Harrington, 1878. (1606, 1617.)
—	Lot 9, range XIV. of Hull, Ottawa county, Q.—Coll., C. W. Willimott. (1611.)
—	Lot 18, range II. of Wakefield, Ottawa county, Q.—Coll., C. W. Willimott, 1882. (4851.)
—	in calcite.—Grand Falls, Calumet Island, Pontiac county, Q. (1616, 1619.)
—	Ross, Renfrew county, O. (1618.)
—	in calcite.—Lot 10, range VI. of North Burgess, Lanark county, O. Coll., H. G. Vennor. (1614.)
—	North Burgess, Lanark county, O.—Coll., H. G. Vennor. (1615.)
—	Bedford, Frontenac county, O.—Presented by W. J. Morris. (1579.)
—	Island D, Lake Clear, Sebastopol, Renfrew county, O.—Presented by J. G. Miller, 1882. (1720.)

4.—Phosphates, etc.—Continued.

- Apatite.**—Turner's Island, Lake Clear, Sebastopol, Renfrew county, O.— Table-case
Presented by J. G. Miller, 1882. (4606.) 66.—
— Lot 31, range X. of Sebastopol, Renfrew county, O.—Coll., C. W. Willimott, 1883. (4610, 4829.) *Continued.*
— Lot 32, range XII. of Sebastopol, Renfrew county, O.—Coll., C. W. Willimott, 1883. (1718, 1719, 4528, 4835.)
- Lazulite.**—Lake Mistassini region, Q.—Coll., J. Richardson, 1870. (5989.)
- Vivianite.**—Côte St. Charles, Vaudreuil, Vaudreuil county, Q. (1613.)
— The "Ramparts," Porcupine River, Yukon district, N.W.T.— Presented by — Firth, 1891. (5987.)
- Nitre.**—Big Bar, Fraser River, B.C.—Presented by A. Cowan, 1884. (4942.)

5.—Borates, uranates.

- Howlite.**—Newport quarry, Newport, Hants county, N.S.—Coll., H. P. Brumell, 1892. (517.)
— in gypsum.—Windsor, Hants county, N.S.—Coll., H. How, 1868. (1620.)
- Ulexite.**—Newport, Hants county, N.S.—Coll., H. How, 1868. (1621.)
- Uraninite,** with gunnite.—Lot 31, range I. of Villeneuve, Ottawa county, Q. (5493.) Table-case 67.

6.—Sulphates, [chromates, tellurates.]

- Barite.**—Mabou Mines, Inverness county, N.S. (1627.)
— Lot —, range IV. of Ramsay, Lanark county, O.—Presented by W. H. Wylie, 1884. (4615.)
— Five Islands, Colchester county, N.S.—Coll., S. Barlow, 1875. (1622.)
— Lot 7, range X. of Hull, Ottawa county, Q. (1629.)
— Lot 4, range VI. of North Burgess, Lanark county, O.—Coll., C. W. Willimott, 1882. (1286.)
— Iron Island, Lake Nipissing, O. (1625.)
— Dog Lake, Storrington, Frontenac county, O. (1626.)
— McKellar's Island, Lake Superior, district of Thunder Bay, O.— Coll., E. D. Ingall, 1886. (5359.)
— (the Michel Lévyte of A. Lacroix).—Near Perkins' Mill, lot 12, range XII. of Templeton, Ottawa county, Q. (5992.)
- Celestite.**—Lot 8, range I. of Lansdowne, Leeds county, O. (1630.)
— Kingston, Frontenac county, O. (1631.)
— Lot 7, range X. of Bagot, Renfrew county, O.—Presented by Hiram Robinson, 1885. (1769.)
— in dolomite.—Forks of the Credit, Caledon, Peel county, O.— Presented by Prof. E. J. Chapman. (1716.)
— Loc. (?) (1634.)
- Anhydrite.**—Hillsborough, Albert county, N.B.—Coll., C. W. Willimott. (1624, 1635.)
— Wentworth, Hants county, N.S.—Coll., C. W. Willimott, 1883. (4616.)
- Gypsum.**—North Shore, St. Ann's Bay, Cape Breton county, N.S.—Coll., H. Fletcher. (1641.)

c.—Sulphates, etc.—Continued.

- Table-case 67.—
Continued.
- Gypsum.**—Hillsborough, Albert county, N.B.—Coll., C. W. Willimott, 1883. (1642.)
- Mount Healy, Haldimand county, O.—Coll., T. C. Weston, 1875. (1714.)
- fibrous.—Springhill, Cumberland county, N.S.—Coll., S. Barlow, 1875. (1643.)
- fibrous.—Blomidon, King's county, N.S.—Coll., R. W. Ells, 1876. (1644.)
- fibrous.—Paris, Brant county, O.—Presented by Wm. Coleman, 1875. (1645.)
- stellar.—Windsor, Hants county, N.S. (1640.)
- var. selenite.—Springhill, Cumberland county, N.S.—Coll., S. Barlow, 1875. (1636.)
- var. selenite.—Niagara Falls, Welland county, O.—Coll., R. Bell, 1859. (1638.)
- var. selenite.—Oxford, River Philip, Cumberland county, N.S. (1639.)
- var. selenite.—Near Lake St. Martin, township 32, range VIII, west of the principal meridian, Manitoba.—Coll., J. B. Tyrrell, 1888. (5537.)
- var. selenite.—South Saskatchewan River, at mouth of Swift Current Creek, district of Assiniboia, N.W.T.—Coll., T. C. Weston. (1637.)
- var. selenite.—Four miles north of Irvine, district of Assiniboia, N.W.T.—Coll., T. C. Weston, 1888. (6520.)
- var. selenite.—Pembina Mountain, Manitoba.—Coll., G. M. Dawson, 1873. (1656.)
- var. selenite.—Pyramid Valley, district of Assiniboia, N.W.T.—Coll., G. M. Dawson, 1873. (1715.)
- Epsomite.**—Ancaster, Brant county, O. (1646.)
- Morenosite.**—Wallace mine, about one mile west of the mouth of Whitefish River, district of Algoma, O. (1647.)
- Melanterite.**—Four miles west of Sudbury junction, C.P.R., district of Algoma, O.—Coll., H. P. Brumell, 1884. (4836.)
- Halotrichite.**—Gowrie Mines, Cape Breton county, N.S. (1648.)
- with melanterite.—Gowrie Mines, Cape Breton county, N.S. (1649.)
- Alunogen.**—Scotia mine, Maccan, Cumberland county, N.S.—Coll., S. Barlow, 1876. (1650.)
- Mouth of Fountain Creek, Fraser River, B.C.—Coll., G. M. Dawson, 1889. (1852.)
- From the vicinity of Spatsum, C.P.R., B.C. (1433.)
- Uraconite** on magnetite.—Seymour ore bed, lot 11, range V. of Madoc, Hastings county, O. (1651.)

7.—Tungstates, [molybdates].

- Scheelite.**—Lot 1, range VII. of Marlow, Beauce county, Q.—Coll., A. Webster, 1881. (5983.)
- Lot 1, range VII. of Marlow, Beauce county, Q.—Coll., W. F. Ferrier, 1891. (1462.)

VIII.—HYDROCARBON COMPOUNDS.

- Mineral resin.**—Near Shaw's mill, north side of Gaspé Basin, Gaspé county, Q. (1701.) Table-case
68.
- From a coal seam on the Middle Fork of the Old Man River, Rocky Mountains, district of Alberta, N.W.T.—Presented by L. O. Garnett, 1885. (5139.)
- Hat Creek, near Marble Cañon, B.C.—Coll., G. M. Dawson, 1877. (1689.)
- (Chemawinité).—West side of Cedar Lake, district of Saskatchewan, N.W.T.—Presented by W. Clark, 1890. (5382.)
- (Chemawinité).—Cedar Lake, district of Saskatchewan, N.W.T.—Coll., J. B. Tyrrell, 1890. (6501.)
- Altered petroleum.**—From the "gum beds," Enniskillen, Lambton county, O. (5541.)
- Maltha** or mineral tar.—Athabasca River, twelve miles below its confluence with the Little Red River, N.W.T.—Coll., A. S. Cochrane, 1881. (5542.)
- Bitumen.**—Barton, Wentworth county, O.—Coll., Col. C. C. Grant. (1704.)
- Bituminous Sand-rock.**—Athabasca River, about six miles south of Beaver Lake, N.W.T.—Coll., A. S. Cochrane, 1881. (1713.)
- Anthraxolite.**—Island of Orleans, River St Lawrence, Q. (1702.)
- Black River, St. Giles, Lotbinière county, Q. (1703.)
- Region of Lake Mistassini, Q.—Coll., J. A. Leitch, 1871. (5982.)
- Albertite.**—Albert Mines, Albert county, N.B.—Coll., R. W. Ells, 1876. (1706, 1903.)
- Mineral charcoal** on lignite.—North bank of the South Saskatchewan River, seven miles west of Medicine Hat, district of Assiniboia, N.W.T. (5546.)
- Lignite.**—Coal River, below Long Portage, Missinaibi River, O.—Coll., R. Bell, 1877. (1711.)
- Souris River—one mile west of La Roche Percée, at the junction of Short Creek and Souris River—district of Assiniboia, N.W.T.—Coll., A. R. C. Selwyn, 1878. (1709.)
- Lignitic coal.**—Belly River—from main seam at "Coal Banks,"—district of Alberta, N.W.T.—Coll., T. C. Weston, 1883. (1721.)
- Coal.**—Sydney, Cape Breton county, N.S. (1710.)
- Mill Creek—four miles above the mill—Old Man River, district of Alberta, N.W.T.—Coll., G. M. Dawson, 1881. (1722.)
- Cannel coal.**—Cape Morien (South Head), Cape Breton county, N.S.—Coll., C. Robb, 1872. (6530.)
- Semi-anthracite.**—Cascade River, Bow River Pass, Rocky Mountains, district of Alberta, N.W.T.—Coll., A. R. C. Selwyn, 1883. (1712.)
- Anthracite.**—Cowgitz, Skidegate Inlet, Queen Charlotte Islands, B.C.—Coll., J. Richardson, 1872. (1605.)

The following are shown in upright table-cases 37-44 and separate table-cases A, B, C, D, E and F. They are supplemental to the systematic collection proper, but not in the sense of illustrating any

species not already shown in that collection. They consist for the most part of large specimens some of which show the mineral to greater advantage than the smaller specimens in the flat table-cases, whilst others consist of groups of crystals or masses of interesting mineral associations.

Native Elements.

Upright
table-case
37. **Graphite.**—Lot 3, range II. of Grenville, Argenteuil county, Q.—Coll., R. Bell, 1856. (588.)

Sulphides.

Cinnabar.—“Rosebush” claim, near the mouth of Copper Creek, Kamloops Lake, B.C.—Coll., E. D. Ingall, 1892. (5530.)
Millerite, in calcite.—Orford nickel mine, lot 6, range XII. of Orford, Sherbrooke county, Q.—Coll., C. W. Willimott, 1882. (5528.)
Pyrite.—Emerald mine, lot 19, range XII. of Buckingham, Ottawa county, Q.—Coll., C. W. Willimott, 1891. (336.)

Oxides.

Quartz, amethystine.—Amethyst Harbour, Thunder Bay, Lake Superior, O.—Coll., R. Bell, 1875. (4543, 5524.)
 — with calcite.—Lake Superior, O. (2520.)
Cacholong, with agate.—Cape Blomidon, King’s county, N.S.—Coll., C. W. Willimott, 1883. (4548.)
Jasper.—Mamainse (Namainse), Lake Superior, district of Algoma, O. (4653.)
Limonite.—Martin’s Brook, Acadia Mines, Londonderry, Colchester county, N.S.—Coll., C. W. Willimott, 1883. (4544.)
 — var. bog iron ore.—Memphrenagog mine, Bolton, Brome county, Q.—Coll., C. W. Willimott, 1892. (4611.)

Carbonates.

Upright
table-case
38. **Calcite.**—Lot 7, range I. of Wakefield, Ottawa county, Q.—Coll., C. W. Willimott, 1884. (4855.)
 — var. Iceland spar, in mountain cork.—Emerald mine, lot 19, range XII. of Buckingham, Ottawa county, Q. (2560.)
 — Montreal, Hochelaga county, Q.—Coll., B. J. Harrington. (4618.)
 — var. nail-head spar.—Montreal, Hochelaga county, Q.—Coll., C. W. Willimott, 1878. (4617.)
 — var. nail-head spar.—Montreal, Hochelaga county, Q.—Coll., B. J. Harrington. (5536.)
 — var. nail-head spar.—Teny Cape, Hants county, N.S.—Coll., C. W. Willimott, 1883. (4623.)
 — var. dog-tooth spar.—Five Islands, Colchester county, N.S.—Coll., S. Barlow, 1875. (2527.)
 — var. Iceland spar.—Galway, Peterborough county, O. (2535.)
Dawsonite on felspathic trap.—Near the western end of McGill College, Montreal, Hochelaga county, Q.—Coll., B. J. Harrington, 1878. (2549.)

Silicates, anhydrous.

- Orthoclase.**—Lot 32, range XII. of Sebastopol, Renfrew county, O.—Coll., C. W. Willimott, 1884. (911, 4826.)
- with pyroxene.—Lot 32, range XII. of Sebastopol, Renfrew county, O.—Coll., C. W. Willimott, 1891. (553.)
- with pyroxene and apatite.—Lot 32, range XII. of Sebastopol, Renfrew county, O.—Coll., C. W. Willimott, 1884. (4828.)
- Amazon stone.**—South half of lot 6, range XII. of Hull, Ottawa county, Q.—Coll., C. W. Willimott, 1883. (4574.)
- Lot 31, range X. of Sebastopol, Renfrew county, O.—Coll., C. W. Willimott, 1884. (4834.)
- Albite,** with tourmaline, muscovite, quartz and spessartite.—Villeneuve mica mine, lot 31, range I. of Villeneuve, Ottawa county, Q.—Coll., C. W. Willimott, 1887. (5465.)
- Oligoclase.**—Lot 8, range III. of Dryden, district of Nipissing, O.—Coll., A. E. Barlow, 1891. (5338.)
- Pyroxene,** var. diopside.—Orford nickel mine, lot 6, range XII. of Orford, Sherbrooke county, Q.—Coll., A. R. C. Selwyn, 1879. (5531.)
- Lot 18, range II. of Wakefield, Ottawa county, Q.—Presented by Isaac Moore, 1883. (5034.)
- with phlogopite.—Lot 18, range II. of Wakefield, Ottawa county, Q.—Coll., C. W. Willimott, 1882. (4552.)
- Lot 18, range II. of Wakefield, Ottawa county, Q.—Coll., C. W. Willimott, 1883. (4551.)
- twin crystal.—Lot 18, range II. of Wakefield, Ottawa county, Q.—Coll., C. W. Willimott, 1890. (616.)
- in calcite.—Portland, Ottawa county, Q. (2548.)
- with apatite.—Lot 7, range IX. of Ross, Renfrew county, O.—Coll., C. W. Willimott, 1883. (3711.)
- var. diopside.—Calumet Island, Pontiac county, Q. (2513.)
- var. diopside.—Ragged Chute, Madawaska River, Blythfield, Renfrew county, O.—Coll., A. Murray, 1859. (4661.)
- with orthoclase and apatite.—Lot 32, range XII. of Sebastopol, Renfrew county, O.—Coll., C. W. Willimott, 1884. (4860.)
- var. diopside.—Grosse Roche, Chaudière River, Beauce county, Q.—Coll., A. Webster, 1879. (4550.)
- Hornblende.**—High Falls, Madawaska River, Blythfield, Renfrew county, O.—Coll., J. Richardson. (4553.)
- var. tremolite.—Lot 24, range IV. of Ross, Renfrew county, O.—Coll., C. W. Willimott, 1883. (615, 2528.)
- Sodalite.**—Ice River, branch of the Beaver-foot River, south of Kicking Horse Pass, Rocky Mountains, B.C. (5348.)
- Garnet,** var. grossularite.—Lot 6, range I. of Wakefield, Ottawa county, Q.—Coll., C. W. Willimott, 1883. (5466, 5525.)
- chromiferous, with pyroxene.—Lot 6, range XII. of Orford, Sherbrooke county, Q.—Coll., C. W. Willimott, 1887. (543.)
- var. almandite.—Chegoggin Point, Yarmouth, Yarmouth county, N.S.—Coll., L. W. Bailey, 1891. (4729.)
- Scapolite.**—Templeton, Ottawa county, Q.—Coll., B. J. Harrington, 1878. (2526.)
- with wilsonite.—Lot 23, range XIII. of Templeton, Ottawa county, Q.—Coll., B. J. Harrington, 1878. (2521.)
- with wilsonite, pyroxene and apatite.—Lot 23, range XIII. of Templeton, Ottawa county, Q.—Presented by J. G. Miller, 1882. (4577.)

Upright
table-case
39.Upright
table-case
40Upright
table-case
41.

Silicates, anhydrous—Continued.

- Upright
table-case
41.—
Continued.
- Upright
table-case
42.
- Scapolite.**—Island "D," Lake Clear, Sebastopol, Renfrew county, O.—Coll., C. W. Willimott, 1884. (5523.)
- Cyanite.**—Lot 9, range III. of Dryden, district of Nipissing, O.—Coll., A. E. Barlow, 1890. (5255, 6546.)
- Prehnite.**—Dalhousie, Restigouche county, N.B.—Coll., R. W. Ells, 1881. (4579.)
- Tourmaline,** in foetid calcite.—Lot 10, range XI. of Chatham, Argenteuil county, Q.—Coll. C. W. Willimott, 1878. (2541.)
- in quartz.—Wakefield, Ottawa county, Q.—Coll., C. W. Willimott, 1890. (5693.)

Silicates, hydrous.

- Upright
table-case
43.
- Apophyllite,** with stilbite.—Blomidon, King's county, N.S.—Coll., C. W. Willimott, 1883. (611.)
- Stilbite.**—Scott's Bay, King's county, N.S.—Coll., C. W. Willimott, 1883. (4590.)
- with calcite.—Partridge Island, Cumberland county, N.S.—Coll., R. W. Ells, 1876. (5529.)
- Cape d'Or, Cumberland county, N.S.—Coll., R. W. Ells, 1876. (4582.)
- West side of Fog Whistle, Cape d'Or, Cumberland county, N.S.—Coll., C. W. Willimott, 1888. (5646, 5682.)
- Digby Neck, Digby county, N.S.—Coll., L. W. Bailey, 1892. (6519.)
- Analcite.**—West side of Horseshoe Cove, Cumberland county, N.S.—Coll., C. W. Willimott, 1888. (5681.)
- with natrolite.—Two Islands, Cumberland county, N.S.—Coll., C. W. Willimott, 1892. (6547.)
- Natrolite.**—Cape Split, King's county, N.S.—Coll., R. W. Ells, 1876. (531.)
- Stronach Mountain, King's county, N.S.—Coll., C. W. Willimott, 1883. (4598.)
- Biotite.**—West half of lot 13, range VI. of Ross, Renfrew county, O.—Coll., C. W. Willimott, 1879. (2532.)
- Phlogopite.**—Augmentation of Grenville, Argenteuil county, Q. (2544.)
- Lot 30, range V. of Portland, Ottawa county, Q.—Coll., C. W. Willimott, 1891. (6548.)
- Lot 9, range IX. of Templeton, Ottawa county, Q.—Coll., A. R. C. Selwyn, 1882. (608.)
- Lot 15, range VIII. of Templeton, Ottawa county, Q.—Coll., B. J. Harrington, 1878. (2531.)
- with plant inclusion.—The growth, a root, most probably a growing spruce (*Picea alba*)—was found embedded in a crystal of mica which measured 20" x 21".—North half of lot 10, range V. of Hull, Ottawa county, Q.—Presented by E. B. Haycock, 1891. (5981.)
- with inclusion of albite, and intimately associated with this, crystals of apatite, pyrite and garnet.—Lot 10, range XII. of Hull, Ottawa county, Q.—Presented by T. F. Nellis, 1891. (614.)
- South half of lot 6, range I. of Wakefield, Ottawa county, Q.—Coll., C. W. Willimott, 1883. (4925.)
- Lot 18, range II. of Wakefield, Ottawa county, Q.—Coll., C. W. Willimott, 1884. (5534.)

Silicates, hydrous—*Continued.*

- Serpentine**, fibrous (var. chrysotile) and massive.—Lot 11, range VII. of Templeton, Ottawa county, Q.—Coll., B. J. Harrington, 1878. (2514.) Upright table-case 43.—*Continued.*
- var. picrolite.—Lot 6, range XV. of Shipton, Richmond county, Q.—Coll., J. Richardson. (4604.)
- Talc.**—Lots 8 and 9, range V. of Grimsthorpe, Hastings county, O.—Presented by A. Moon, 1892. (5532.)
- Pyrallolite.**—Lot 8, range VI. of Ramsay, Lanark county, O.—Coll., C. W. Willimott, 1887. (5489.) Upright table-case 44.

Titano-silicates.

- Titanite.**—Lake Clear, Sebastopol, Renfrew county, O.—Presented by J. G. Miller, 1882. (5526.)
- with zircon.—Lot 31, range X. of Sebastopol, Renfrew county, O.—Coll., C. W. Willimott, 1883. (4538.)

Phosphates.

- Apatite.**—Lot 18, range II. of Wakefield, Ottawa county, Q.—Coll., C. W. Willimott, 1884. (3713, 4843.)
- with inclusion of calcite.—Lot 7, range IX. of Ross, Renfrew county, O.—Coll., C. W. Willimott, 1883. (4607.)
- Lake Clear, Sebastopol, Renfrew county, O.—Presented by J. G. Miller, 1882. (3710.)
- in calcite.—Island "D," Lake Clear, Sebastopol, Renfrew county, O.—Coll., C. W. Willimott, 1884. (4609.)
- in calcite.—Lot 32, range XII. of Sebastopol, Renfrew county, O.—Coll., C. W. Willimott, 1891. (2554.)
- Rathwell lot, Bromley, Renfrew county, O.—Coll., C. W. Willimott, 1891. (6549.)

Sulphates.

- Barite.**—Five Islands, Colchester county, N.S.—Coll., S. Barlow, 1875. (2478.)
- Celestite**, in dolomite.—Forks of the Credit, Caledon, Peel county, O.—Coll., C. W. Willimott, 1884. (4856.)
- Gypsum.**—Hillsborough, Albert county, N.B.—Presented by J. T. Tomkins. (4612.)
- massive and fibrous.—Black Rock, Colchester county, N.S., opposite Maitland.—Coll., C. W. Willimott, 1884. (4613.)
- var. selenite.—Cape Blomidon, King's county, N.S.—Coll., C. W. Willimott, 1883. (4614.)
- var. selenite—Hamilton Mountain, Barton, Wentworth county, O.—Coll., C. W. Willimott, 1884. (4857.)

Tungstates.

- Scheelite.**—Lot 1, range VII. of Marlow, Beauce county, Q.—Coll., W. F. Ferrier, 1891. (2572.)

Separate table-cases.

CASE A.

Pyroxene, hornblende, apatite, calcite and biotite.—Lot 32, range XII. of Sebastopol, Renfrew county, O.—Coll., C. W. Willimott, 1883.—Laurentian, A. (3510.)

CASE B.

Mountain cork—a kind of asbestos in which the fibres are so interlaced as to form a tough light mass.—Emerald mine, lot 19, range XII. of Buckingham, Ottawa county, Q.—This specimen—presented by F. W. Warwick, 1888—weighs 5 lbs. 10 ozs.—Laurentian, A. (5553.)

CASE C.

Calcite (dog-tooth spar) with iron-pyrites.—Silver Islet, Lake Superior, district of Thunder Bay, O.—Presented by Captain Trethewy, 1882.—Cambrian, C 1. (4947.)

CASE D.

Albite, tourmaline, muscovite and quartz.—Villeneuve mica mine, lot 31, range I. of Villeneuve, Ottawa county, Q.—Presented by L. H. Shirley, 1886.—Laurentian, A. (5281.)

CASE E.

Biotite—broken off a mass which weighed about 340 lbs.—Lot 32, range XII. of Sebastopol, Renfrew county, O.—Coll., C. W. Willimott, 1883.—Laurentian, A. (4849.)

CASE F.

Amethyst, associated with fluorite coated with iron-pyrites.—McKenzie River, Thunder Bay, Lake Superior, O.—Presented by R. Blackwood and Geo. McVicker, 1875.—Huronian, B. (5257.)

B.—COLLECTION OF ECONOMIC MINERALS AND ROCKS.

This, to which has been assigned a far larger space than that occupied by either of the other two related collections (*i. e.* the systematic collection of minerals and stratigraphical collection of rocks) in this section of the Museum, occupies the upright wall and wing-cases 1-28, the table-cases 34-48 and 69-71, also the upright table-cases 25-36.

The series of polished slabs of marbles are affixed to the ends of the wing-cases and in the recesses of the windows. The large specimens of minerals and rocks occupy brackets at the end and foot of the wing-cases, and other large objects,—such as columns and the like,—occupy a position in some of the recesses formed by the wing-cases.

NOTE.—The specimens illustrating the distribution of iron-ores have been arranged in a combined systematic and geographic manner, thereby admitting of a ready reference to the ores from any particular province. This reference is still further facilitated by placing the specimens from the different provinces upon variously coloured card-board covering the bottom of the containing tray. The Maritime provinces being represented by greenish-blue, the province of Quebec by purplish-brown, that of Ontario by dark bluish-grey, the province of Manitoba and the North-west Territory by olive-green and the province of British Columbia by salmon-red.

The following is a synopsis of the arrangement of this collection :

I.—METALS AND THEIR ORES.

Antimony ores : bismuth ores : cobalt ores : copper ores : gold ores : iron ores : lead ores : mercury ores : nickel ores : platinum : silver ores : zinc ores.

II.—MINERALS APPLICABLE TO CERTAIN CHEMICAL MANUFACTURES.

Apatite (phosphate of lime) : arsenopyrite (sulph-arsenide of iron) : celestite (sulphate of strontia) : chromic iron ore (chromate of iron) : iron pyrites (bisulphide of iron) : magnesite (carbonate of magnesia) : manganese ores (oxides of manganese) : molybdenite (sulphide of molybdenum) : scheelite (tungstate of lime).

III.—MINERALS USED IN THE PRODUCTION OF LIGHT AND HEAT.

Albertite : anthracite : bituminous shale : coal : lignite : mineral tar : oil shale : peat : petroleum.

IV.—MINERALS (AND MATERIAL MANUFACTURED FROM CERTAIN OF THE SAME) APPLICABLE TO COMMON AND DECORATIVE CONSTRUCTION.

Brick clays, bricks and drain-tiles : dolomites ; gneisses : granites ; gypsum, anhydrite and plaster-of-Paris : labradorite rock : limestones : marbles, limestone and serpentine : raw cement stones and hydraulic limes : raw limestones and common limes : roofing slates : sandstones : syenites.

V.—MINERALS EMPLOYED AS PIGMENTS.

Barytes : iron ochres : steatite.

VI.—REFRACTORY (FIRE RESISTING) MINERALS.

Asbestos : fire-clay : graphite : mica : potstone or compact chlorite ; sandstone, refractory : soapstone or steatite.

VII.—BRINES, SALT, AND MINERAL WATERS.

Brines : mineral waters : salt, common.

VIII.—MINERALS APPLICABLE TO THE FINE ARTS AND JEWELLERY.

Actinolite in quartz (Thétis hair-stone) : agates : alabaster : albite : amethyst : asteriated quartz : aventurine felspar : carnelian : epidote : garnet ; heliotrope : jasper : jasper conglomerate : labradorite : lithographic stone : microline : (amazonstone) : nephrite : obsidian : peristerite : perthite : porphyries : retinite : scapolite : serpentine ; sodalite : thomsonite : tourmaline.

IX.—MINERALS EMPLOYED, WITH OR WITHOUT PREVIOUS PREPARATION, AS FERTILIZERS.

Apatite ; gypsum : marls.

X. MINERALS EMPLOYED FOR GRINDING AND POLISHING.

Infusorial earth or earthy tripolite : marl, arenaceous and calcareous : mica-slates : sandstones : silicious sand and silt.

XI.—MINERALS OF MISCELLANEOUS APPLICATION.

Felspar, suitable for the manufacture of porcelain : moulding sands : quartz, quartz sand and sandstone, suitable for glass making : soap-clay employed as a detergent.

I.—METALS AND THEIR ORES.

GOLD ORES.

Gold-bearing Quartz.

- Auriferous quartz.**—Lawrencetown, Halifax county, N.S.—Coll., A. R. C. Selwyn, 1870.—Cambrian, C 1. (378.) Upright wall-case 1.
- (quartz with mispickel).—Lawrencetown, Halifax county, N.S.—Coll., A. R. C. Selwyn, 1870.—Cambrian, C 1. (421.)
- (quartz with mispickel.—Belt lead, Albion mine, Montagu, Halifax county, N.S.—Presented by Mr. Lawson, 1870.—Cambrian, C 1. (384.)
- Lydia and Sarah lead, Montagu mine, Montagu, Halifax county, N.S.—Coll., A. R. C. Selwyn, 1870.—Cambrian, C 1. (385.)
- Rose lead, Montagu mine, Montagu, Halifax county, N.S.—Presented by W. J. Smart, 1890.—Cambrian, C 1. (2474.)
- Montagu, Halifax county, N.S.—Cambrian, C 1. (437.)
- Jennings' Diggings, Musquodoboit, Halifax county, N.S.—Presented by A. Michel, 1869.—Cambrian, C 1. (386.)
- Nigger lead (from middle of vein—70 ft).—Tangier, Halifax county, N.S.—Cambrian, C 1. (387.)
- Nigger lead (hanging wall), Tangier, Halifax county, N.S.—Cambrian, C 1. (428.)
- Leary lead (hanging wall), Tangier, Halifax county, N.S.—Presented by Mr. Crossland, 1870.—Cambrian, C 1. (392.)
- Baker's mine (200 feet from surface), Oldham, Halifax county, N.S.—Cambrian, C 1. (422.)
- Oldham, Halifax county, N.S.—Cambrian, C 1. (435.)
- Irving belt, Mooseland, Halifax county, N.S.—Cambrian, C 1. (473.)
- Waverley, Halifax county, N.S.—Cambrian, C 1. (425.)
- From cross vein, Waverley, Halifax county, N.S.—Cambrian, C 1. (471.)
- Killog mine, Sheet Harbour, Halifax county, N.S.—Presented by George Stewart, 1888.—Cambrian, C 1. (5749.)
- Upper Stewiacke, Colchester county, N.S.—Coll., A. R. C. Selwyn, 1870.—Cambrian, C 1. (381.)
- Brook lode, Renfrew, Hants county, N.S.—Cambrian, C 1. (382.)
- Central Rawdon gold mine, Rawdon, Hants county, N.S.—Presented by Gould Northup, 1890.—Cambrian, C 1. (2461.)
- Wine Harbour, Guysborough county, N.S.—Coll., A. R. C. Selwyn, 1870.—Cambrian, C 1. (423.)
- Goldenville, Sherbrooke, Guysborough county, N.S.—Cambrian, C 1. (427.)
- Crows Nest mine, St. Mary's, Guysborough county, N.S.—Presented by Alex. Mackenzie, 1887.—Cambrian, C 1. (5362.)

GOLD ORES—Continued.

Gold-bearing Quartz—Continued.

Upright wall-case I.— Continued.	—	Auriferous quartz—Gold River, Lunenburg county, N.S.—Cambrian, C 1. (393.)	
	—	Yellow Jacket vein. (2470.)	} Caledonia Gold Field, Caledonia,
	—	Dunbrecht vein. (2471.)	} Queen's county, N.S.
	—	Centre vein. (2472.)	} Coll., A. R. C. Selwyn, 1890.
	—	Cole vein. (2473.)	} Cambrian, C 1.
	—	St. Giles de Beauvillage, Lotbinière county, Q.—Pre-Cambrian, B? (372.)	
	—	Handkerchief mine, St. Giles de Beauvillage, Lotbinière county, Q.—Pre-Cambrian, B? (417.)	
	—	St. François, seigniory of Rigaud-Vaudreuil, Beauce county, Q.—Cambrian, C. (373.)	
	—	Devil's Rapids, Chaudière River, St. François, seigniory of Rigaud-Vaudreuil, Beauce county, Q.—Cambrian, C. (374.)	
	—	Lot 30, range I. seigniory of Aubert-Gallion, Beauce county, Q.—Cambrian, C. (377.)	
	—	Wollaston, Hastings county, O.—Presented by Wm. Sheppard, 1883.—Archean, A. B. (430.)	
	—	(quartz with mispickel).—Gillen mine, lot 6, range VIII. of Marmora, Hastings county, O.—Coll., H. G. Vennor, 1871.—Archean, A. B. (324.)	
	—	(quartz with mispickel).—Gatling mine, lot 9, range VIII. of Marmora, Hastings county, O.—Coll., H. G. Vennor, 1871.—Archean, A. B. (4823.)	
	—	Gladstone mine, lot 17, range XI. of Marmora, Hastings county, O.—Presented by Hon. Billa Flint, 1869.—Archean, A. B. (439.)	
	—	Lot 12, Hastings road, Tudor, Hastings county, O.—Presented by W. Sheppard, 1883.—Archean, A. B. (436.)	
	—	Cragg's gold mine, Tudor, Hastings county, O.—Archean, A. B. (1011.)	
	—	East half of lot 20, range I. of Belmont, Peterborough county, O.—Coll., H. P. Brumell, 1891.—Archean, A. B. (5141.)	
	—	Victoria Cape, Jackfish Bay, opposite Slate Islands, Lake Superior, O. Coll., R. Bell, 1870.—Huronian, B. (380.)	
	—	Partridge Lake, district of Thunder Bay, O.—Coll., R. Bell, 1870.—Huronian, B. (389.)	
	—	Huronian mine, lot H 1, township of Moss, district of Thunder Bay, O.—Coll., R. Bell, 1870.—Huronian, B. (429.)	
	—	South side of Upper Lake Shebandowan, district of Thunder Bay, O.—Coll., R. Bell, 1870.—Huronian, B. (415.)	
	—	Sultana mine, Lake of the Woods, district of Rainy River, O.—Coll., A. R. C. Selwyn, 1888.—Huronian, B. (5584.)	
	—	Snowshoe Mount, Richfield, Cariboo, B.C. (390.)	

Gold-bearing rocks (other than quartz), also auriferous arsenopyrite and stibnite.

Auriferous conglomerate—Gay's River, Colchester county, N.S.—Presented by H. S. Poole, 1887.—Carboniferous, G. (5459.)

GOLD ORES—*Continued.***Gold-bearing rocks (other than quartz), also auriferous arsenopyrite and stibnite—Continued.**

- Auriferous veinstone.**—Montagu, Halifax county, N.S.—Coll., A. R. C. Selwyn, 1870.—Cambrian, C 1. (391.)
- **mispickel** (arsenopyrite).—Gatling mine, lot 9, range VIII. of Marmora, Hastings county, O.—Coll., H. G. Vennor, 1871.—Archean, A. B. (412.)
- **dolomite.**—Lot 15, range XIV. of Leeds, Megantic county, Q.—Pre-Cambrian, B? (394.)
- **antimony ore** (stibnite).—Clarendon, Frontenac county, O.—Presented by W. Sheppard, 1883.—Laurentian, A. (438.)
- **felspathic rock.**—Cabill's mine, Rawdon, Montcalm county, Q.—Laurentian, A. (982.)
- **gneiss.**—Dorwin's mill, Rawdon, Montcalm county, Q.—Laurentian A. (981.)
- **rock** (limestone with pyrite).—Dorwin's mill, Rawdon, Montcalm county, Q.—Laurentian, A. (980.)
- **dolomite** with tetrahedrite).—Lot 1, range VI. of Madoc, Hastings county, O.—Coll., H. G. Vennor, 1868. (333.)
- **rock.**—Richardson mine, lot 18, range V. of Madoc, Hastings county, O.—Archean, A. B. (424.)
- **vein-stuff,** Richardson mine, lot 18, range V. of Madoc, Hastings county, O.—Archean, A. B. (371.)

Upright
wall-case
1.—
Continued.

Specimens of native gold separated from the matrix.

Native gold.—Richardson mine, lot 18, range V. of Madoc, Hastings county, O.
—(398-403.)

- Lot 15, range IV. of Madoc, Hastings county, O. (409.)
- do 16, do VI. do do (397.)
- do 18, do VII. do do (406.)
- do 10, do IX. of Hungerford do (405.)
- do 5, do II. of Elzevir do (420.)

Placer Gold.

Alluvial Gold.—Gilbert River (Touffe des Pins), seigniorship of Rigaud-Vaudreuil, Beauce county, Q. (986.)

- Lot 11, concession St. Charles, north-east side of Gilbert River (15 feet below river level), seigniorship of Rigaud-Vaudreuil, Beauce county, Q. (999.)
- Lot 7, concession St. Charles, Gilbert River (96 feet below river level), seigniorship of Rigaud-Vaudreuil, Beauce county, Q. (1005.)
- Lot 14, concession De Léry, Gilbert River lead, seigniorship of Rigaud-Vaudreuil, Beauce county, Q. (1000.)
- Lot 14, concession De Léry (from gravel on clay 1 to 4 feet), seigniorship of Rigaud-Vaudreuil, Beauce county, Q. (1006.)
- Lot 17, concession De Léry (from bank 8 feet above Gilbert River), seigniorship of Rigaud-Vaudreuil, Beauce county, Q. (1004.)

GOLD ORES—*Continued.***Placer Gold**—*Continued.*

Upright wall-case 1.— <i>Continued.</i>	—	Alluvial Gold. —Devils Rapids, Chaudière River, St. François, seigniory of Rigaud-Vaudreuil, Beauce county, Q. (1002.)
	—	Lot 27, range I. of St. François, seigniory of Rigaud-Vaudreuil, Beauce county, Q. (1010.)
	—	Loubier Creek, St. François, seigniory of Rigaud-Vaudreuil, Beauce county, Q. (1008.)
	—	Rivière des Plantes (Guillaume), seigniory of Rigaud-Vaudreuil, Beauce county, Q. (1001.)
	—	Lot 16, concession Chaussegros, seigniory of Rigaud-Vaudreuil, Beauce county, Q. (1009.)
	—	Lot 20, concession St. George, seigniory of Aubert-Gallion, Beauce county, Q. (1007.)
	—	Jersey Point, Rivière du Loup, Beauce county, Q. (1003.) Specimens numbered 999 to 1010 inc., were presented by W. P. Lockwood.
	—	Chaudière River, Beauce county, Q. (395, 416, 418.)
	—	Chaudière River, between Gilbert River and St. François, seigniory of Rigaud-Vaudreuil, Beauce county, Q. (446.)
	—	Three miles up the Gilbert River (Touffe des Pins), seigniory of Rigaud-Vaudreuil, Beauce county, Q. (449.)
	—	Rivière des Plantes (Guillaume) seigniory of Rigaud-Vaudreuil, Beauce county, Q. (448, 453.)
	—	From creek below Bolduc's, seigniory of Rigaud-Vaudreuil, Beauce county, Q. (446.)
	—	From creek, west side of the Chaudière River, at Ste. Marie, seigniory of St. Joseph, Beauce county, Q. (447.)
	—	From creek, west side of the Chaudière River, half a mile below St. Joseph Church, seigniory of St. Joseph, Beauce county, Q. (456.)
	—	Rivière du Bras, Beauce county, Q. (467.)
	—	Chaudière River, above south-east line of Fief St. Charles, seigniory of Aubert de l'Isle, Beauce county, Q. (450.)
	—	Ruisseau St. Henry or Lady Fair stream, above south-east line of Fief St. Charles, Beauce county, Q. (457.)
	—	East branch of Rivière du Bras, township of Tring, Beauce county, Q. (462.)
	—	Rivière du Loup, Beauce county, Q.—Presented by A. A. Humphrey. (985.)
	—	Rivière du Loup, above Jersey line, Beauce county, Q. (445.)
	—	Rivière du Loup, half a mile above the Chaudière. (452.)
	—	Famine River, township of Watford, Dorchester county, Q. (451, 984.)
	—	River Samson, Beauce county, Q. (455.)
	—	Pozer's stream, township of Shenley, Beauce county, Q. (459.)
	—	River Oliva, Kennebec Road range, Beauce county, Q. (463.)
	—	Travellers' Rest River, Kennebec Road range, Beauce county, Q. (464.)
	—	Kempt stream, Kennebec Road range, Beauce county, Q. (465.)
	—	Rivière Grand Coudée, Kennebec Road range, Beauce county, Q. (454.)
	—	Trout River, township of Jersey, Beauce county, Q. (468.)
	—	Outlet of Lake Archer, Lake Etchemin, Dorchester county, Q. (458.)

GOLD ORES—*Continued.*Placer Gold—*Continued.*

- Alluvial Gold.**—Bishops clearing, River St. Francis, Dudswell, Wolfe county, Q. (444.)
- Dudswell Road, ten miles from Sherbrooke, Sherbrooke county, Q. (460.)
- Dudswell Road, seven miles west of Sherbrooke, Sherbrooke county, Q. (461.)
- Magog River, above Sherbrooke, Sherbrooke county, Q. (983.)
- Models of nuggets from the tributaries of the Chaudière River, Beauce county, Q. (978.)
- Model of nugget from Omineca, B.C. (979.)
- Upright
wall-case
1.—
Continued.

The following, although essentially ores of silver are, inasmuch as space could not be found for them in a more appropriate place, also shown in this case.

- Silver ore.**—Location 96 T, township of Gillies, district of Thunder Bay, O.—Presented by T. A. Keefer, 1888.—Cambrian, C 1. (3637.)
- Idaho Mountain, south-east side of Stump Lake, Nicola Valley, B.C. (5491.)
- Star claim, Stump Lake, Nicola Valley, B.C.—Presented by G. Henderson, 1888. (5706.)
- Joshua claim, south-east side of Stump Lake, Nicola Valley, B.C.—Presented by the Nicola Milling and Mining Co., Wm. Craib, Mgr. (5707.)
- Tubal Cain claim, south-east side of Stump Lake, Nicola Valley, B.C.—Presented by the Nicola Milling and Mining Co., Wm. Craib, Mgr. (5708.)
- King William claim, south-east side of Stump Lake, Nicola Valley, B.C.—Presented by the Nicola Milling and Mining Co., Wm. Craib, Mgr. (5709.)

GOLD AND SILVER ORES.

Gold and Silver Ores from the Province of British Columbia.

I.—EAST KOOTANIE DISTRICT.

- Vitreous copper ore** and copper pyrites in quartz—argentiferous.—“Copper Bonanza” claim, Wet-feet Creek, Otter-tail Creek, near Otter-tail Station, C.P.R.—Coll., R. G. McConnell, 1886. (5352.)
- Galena**, argentiferous.—“Louis” claim, about one and three-quarter miles east of Otter-tail station, C.P.R.—Coll., R. G. McConnell, 1886. (5353.)
- zinc blende and copper pyrites—argentiferous.—“Pioneer” claim, Otter-tail Creek, near Otter-tail station, C.P.R.—Coll., R. G. McConnell, 1886. (5354.)
- argentiferous.—“Carleton” claim, Mount Stephen (Tunnel Mountain).—Coll., R. G. McConnell, 1886. (5355.)
- argentiferous.—“Cornucopia” claim, Mount Stephen (Tunnel Mountain).—Coll., R. G. McConnell, 1886. (5356.)
- Table-case
47.

GOLD AND SILVER ORES—*Continued.*From the Province of British Columbia—*Continued.*I.—EAST KOOTANIE DISTRICT—*Continued.*

Table-case 47.— <i>Continued.</i>	Galena , argentiferous.—“Monarch” claim, Mount Stephen (Tunnel Mountain).—Coll., R. G. McConnell, 1886. (5357.)
—	argentiferous.—“Alpha” claim, Mount Field.—Coll., R. G. McConnell, 1886. (5361.)
—	argentiferous.—Vicinity of Field Station, C.P.R. (5345.)

A.—*McMurdo Mining Area.*

Galena , argentiferous.—“Crescent” claim. (5809.)
— do “Syenite Bluff” claim, Deception Creek. (5810.)
— do “Black Horse” do do do. (5812.)
— do “Mascot” do Copper Creek. (5813.)
— do “Jumbo” do Toby Creek, (5814.)

2.—WEST KOOTANIE DISTRICT.

A.—*Toad Mountain mining camp and vicinity.*

Purple copper ore , copper pyrites and grey copper (tetrahedrite)—argentiferous.—“Silver King” claim.—Coll., G. M. Dawson, 1889 (5815.)
— argentiferous.—“Silver King” claim.—Coll., G. M. Dawson, 1889. (5816.)
Copper pyrites and grey copper (tetrahedrite)—argentiferous.—“Kootanie Bonanza” claim.—Coll., G. M. Dawson, 1889. (5817.)
— and grey copper (tetrahedrite) in quartz—argentiferous.—“Dandy” claim.—Coll., G. M. Dawson, 1889. (5818.)
Galena , zinc blende and copper pyrites in quartz—argentiferous.—“Dandy” claim.—Coll., G. M. Dawson, 1889. (5819.)
Copper pyrites , iron pyrites and grey copper (tetrahedrite) in quartz—argentiferous.—“Tough-nut” claim.—Coll., G. M. Dawson, 1889. (5820.)
Iron pyrites , copper pyrites, grey copper (tetrahedrite) and zinc blende—argentiferous.—“Tough-nut” claim.—Coll., G. M. Dawson, 1889. (5821.)
Grey copper (tetrahedrite) with copper pyrites—argentiferous.—“Grizzly” claim.—Coll., G. M. Dawson, 1889. (5822.)
Galena and iron pyrites in quartz—argentiferous.—“Evening Tide” claim.—Coll., G. M. Dawson, 1889. (5823.)
Galena , copper pyrites, iron pyrites, zinc blende and grey copper (tetrahedrite)—argentiferous.—“Iroquois” claim.—Coll., G. M. Dawson, 1889. (5824.)
Copper pyrites and grey copper (tetrahedrite)—argentiferous.—“Iroquois” claim.—Coll., G. M. Dawson, 1889. (5825.)
Grey copper (tetrahedrite), copper pyrites and iron pyrites—argentiferous.—“Iroquois” claim.—Coll., G. M. Dawson, 1889. (5826.)
Ore from the Cottonwood mine.—Worked for gold.—Coll., G. M. Dawson, 1889. (5827-32.)

- (1.) Specimen showing general character of much of the rock. (5827.)
- (2.) Decomposed schist. (5828.)
- (3.) Decomposed vein matter. (5829.)
- (4.) Decomposed vein matter carrying native gold. (5830.)
- (5.) Undecomposed kernel in ore mass. (5831.)
- (6.) Specimen of a swell vein some parts of which assayed \$1,300 per ton. (5832.)

GOLD AND SILVER ORES—*Continued.*From the Province of British Columbia—*Continued.*2.—WEST KOOTANIE DISTRICT—*Continued.*A.—*Toad Mountain mining camp and vicinity—Continued.*

- Galena**—argentiferous. Surface rock.—“Umatilla” and “Uncle Sam” claims, Labeau Mines, east side of Cottonwood-Smith Creek, about two miles and a-half from Nelson. (5833.) Table-case 47.—*Continued.*
- Galena**, zinc blende and copper pyrites—argentiferous.—“Umatilla” and “Uncle Sam” claims, Cottonwood-Smith Creek.—Coll., G. M. Dawson, 1889. (5834.)
- and zinc blende—argentiferous.—“Apex” claim, Labeau Mines, Cottonwood-Smith Creek.—Coll., G. M. Dawson, 1889. (5835.)
- argentiferous.—“Apex” claim, Labeau Mines, Cottonwood-Smith Creek.—Coll., G. M. Dawson, 1889. (5836.)
- Iron pyrites** and copper pyrites in quartz—auriferous.—“Poorman” claim, about four miles west of Nelson. (5837.)

B.—*Hot Springs (or Ainsworth) mining camp.*

- Galena**—argentiferous.—“Little Donald” claim.—Coll., G. M. Dawson, 1889. (5838.)
- argentiferous.—“Krao” claim.—Coll., G. M. Dawson, 1889. (5839.)
- do “Sunrise” do do (5840.)
- Native silver**.—“Number One” claim.—Coll., G. M. Dawson, 1889. (5841.)
- Galena**, zinc blende and iron pyrites—argentiferous.—“Number One” claim.—Coll., G. M. Dawson, 1889. (5842.)
- and iron pyrites with native silver.—“Number One” claim.—Coll., G. M. Dawson, 1889. (5843.)
- zinc blende and iron pyrites—argentiferous.—“Number One” claim.—Coll., G. M. Dawson, 1889. (5844.)
- argentiferous.—“United” claim.—Coll., G. M. Dawson, 1889. (5845.) Table-case 48.
- argentiferous.—“Black Chief” claim.—Coll., G. M. Dawson, 1889. (5846.)
- zinc blende and iron pyrites in calcite—argentiferous.—“Sweden” claim.—Coll., G. M. Dawson, 1889. (5847.)
- argentiferous.—“Spokane” claim.—Coll., G. M. Dawson, 1889. (5848.)
- and copper pyrites—argentiferous.—“Jeff Davis” claim.—Coll., G. M. Dawson, 1889. (5849.)
- Weathered quartz rock**.—“Sky Line” claim.—Coll., G. M. Dawson, 1889. (5850.)
- Galena**—argentiferous.—“Della” claim.—Coll., G. M. Dawson, 1889. (5851.)
- Galena** with iron and copper pyrites—argentiferous.—“Tiger” claim.—Coll., G. M. Dawson, 1889. (5852.)
- Galena**, in calcite—argentiferous.—“Dictator” claim.—Coll., E. D. Ingall, 1892. (42.)
- with zinc blende in quartz—argentiferous.—“Dictator” claim.—Coll., E. D. Ingall, 1892. (43.)
- with some iron pyrites in quartz—argentiferous.—“Highlander” claim.—Coll., E. D. Ingall, 1892. (44.)
- with some zinc blende, in dolomitic limestone—argentiferous.—“Neosho” claim.—Coll., E. D. Ingall, 1892. (45.)

GOLD AND SILVER ORES—Continued.

From the Province of British Columbia—Continued.

2.—WEST KOOTANIE DISTRICT—Continued.

B.—Hot Springs (or Ainsworth) mining Camp—Continued.

- Table-case Zinc blende with native silver, in dolomitic limestone.—“Neosho” claim.—Coll.,
48.— E. D. Ingall, 1892. (46.)
Continued. Weathered rock.—“Neosho” claim.—Coll., E. D. Ingall, 1892. (47.)

C.—Hendryx mining camp.

- Galena, zinc blende, magnetic pyrites and copper pyrites—argentiferous.—
“Blue Bell” claim.—Coll., G. M. Dawson, 1889. (5853.)
Zinc blende.—“Blue Bell” claim.—Coll., G. M. Dawson, 1889. (5854.)
Galena—argentiferous.—“Blue Bell” claim.—Coll., G. M. Dawson, 1889.
(5855.)
Quartz, with a little galena and alteration product of same.—“Blue Bell”
claim.—Coll., G. M. Dawson, 1889. (5856.)
Galena, zinc blende and iron pyrites—argentiferous.—“Kootanie Chief” claim.
—Coll., G. M. Dawson, 1889. (5857.)
Galena, zinc blende, magnetic pyrites and copper pyrites—argentiferous.—
“Kootanie Chief” claim.—Coll., G. M. Dawson, 1889.
(5858.)

D.—Illecillewaet Mines.

- Galena, with grey copper tetrahedrite in quartz—argentiferous.—“Isabella”
claim, Illecillewaet River.—G. R. Wright, 1887. (5460.)
Quartz, with small quantities of grey copper (tetrahedrite) and green carbonate,
—“Sailor Boy” claim, Illecillewaet River.—G. R. Wright,
1887. (5461.)
Galena—argentiferous.—“Lanark” claim, Illecillewaet River.—G. R. Wright,
1887. (5462.)
Galena and zinc blende—argentiferous.—“Balfour” claim, Illecillewaet River.
—G. R. Wright, 1887. (5463.)
Iron pyrites with galena in quartz—argentiferous.—“Jumbo” claim.—Coll., E.
D. Ingall, 1892. (48.)
— “Sanquahar” claim.—Coll., E. D. Ingall, 1892. (49.)
Galena—argentiferous.—“Maple Leaf” claim, thirty-three miles east of Revel-
stoke, and within a mile of the C.P.R. (5346.)
Galena (weathered) in a quartzose gangue—argentiferous.—“Maple Leaf”
claim.—Coll., E. D. Ingall, 1892. (50.)
Galena in quartz—argentiferous.—“Cariboo” claim.—Coll., E. D. Ingall, 1892.
(51.)
Iron pyrites, galena and zinc blende, in quartz—argentiferous.—“Cariboo”
claim.—Coll., E. D. Ingall, 1892. (52.)
Galena, in quartz—argentiferous.—“Edinburgh” claim.—Coll., E. D. Ingall,
1892. (53.)
Galena—argentiferous.—“Elizabeth” claim.—Coll., E. D. Ingall, 1892. (54.)
Ochre do do do do (55.)
Galena, in a quartzose gangue—argentiferous.—“Herring-back” claim.—Coll.,
E. D. Ingall, 1892. (56.)
Zinc blende with iron pyrites, in dolomitic limestone.—“Herring-back” claim.—
Coll., E. D. Ingall, 1892. (57.)

GOLD AND SILVER ORES—*Continued.*From the Province of British Columbia—*Continued.*2.—WEST KOOTANIE DISTRICT—*Continued.**D.—Illecillewaet Mines—Continued.*

- Galena.**—An association of a somewhat finely crystalline (so-called “spangle” ore) and very fine crystalline (so-called “steel ore”) galena, with some iron pyrites—argentiferous.—“Fishburn” claim.—Coll., E. D. Ingall, 1892. (60.) Table-case 48.—*Continued.*
- Zinc blende.**—“Fishburn” claim.—Coll., E. D. Ingall, 1892. (61.)
- Galena,** with some zinc blende—argentiferous.—“Dunvegan” claim.—Coll., E. D. Ingall, 1892. (62.)
- Galena** with iron pyrites in quartz—argentiferous.—“Dunvegan” claim.—Coll., E. D. Ingall, 1892. (63.)
- Zinc blende.**—“Dunvegan” claim.—Coll., E. D. Ingall, 1892. (64.)
- Galena,** in quartz—argentiferous.—“Gold Hill” claim.—Coll., E. D. Ingall, 1892. (65.)
- Bornite,** in quartz—argentiferous.—“Silver Bow” claim.—Coll., E. D. Ingall, 1892. (146.)
- Copper pyrites** in a gangue of dolomite with quartz.—“Silver Bow” claim.—Coll., E. D. Ingall, 1892. (153.)
- Weathered rock.**—“Florence” claim.—Coll., E. D. Ingall, 1892. (154.)
- Galena**—argentiferous.—“Union” claim.—Coll., E. D. Ingall, 1892. (155.)
- in a calcareous gangue.—“Lady of the Lake” claim.—Coll., E. D. Ingall, 1892. (156.)
- “Ibex” claim.—Coll., E. D. Ingall, 1892. (157.)
- with iron pyrites in quartz.—“Ibex” claim.—Coll., E. D. Ingall, 1892. (158.)
- Zinc blende**—“Ibex” claim.—Coll., E. D. Ingall, 1892. (159.)
- Galena** in quartz—argentiferous.—“Shakespeare” claim, north-east arm of Upper Arrow Lake. (5860.)

E.—Kaslo-Slocan Mines.

- Galena**—argentiferous.—“Triangle” claim.—Coll., E. D. Ingall, 1892. (160.)
- with some iron pyrites.—“Yosemite” claim.—Coll., E. D. Ingall, 1892. (161.)
- “Montezuma” claim.—Coll., E. D. Ingall, 1892. (162.)
- Ochreous earth.**—“Montezuma” claim.—Coll., E. D. Ingall, 1892. (165.)
- Galena** with some copper pyrites—argentiferous.—“White Heather” claim.—E. D. Ingall, 1892. (169.)
- Galena**—argentiferous.—“Payne” claim.—Coll., E. D. Ingall, 1892. (225.) Table-case 70.
- Galena**—with some copper pyrites in a quartzose gangue.—“Beaver” claim.—Coll., E. D. Ingall, 1892. (226.)
- Zinc blende** in limestone.—“Silver Tip” claim.—Coll., E. D. Ingall, 1892. (227.)
- Galena**—argentiferous.—“Monte Christo” claim.—Coll., E. D. Ingall, 1892. (228.)
- Zinc blende.**—“Monte Christo” claim.—Coll., E. D. Ingall, 1892. (229.)
- Galena** in dolomitic limestone—argentiferous.—“Solo” claim.—Coll., E. D. Ingall, 1892. (232.)
- Quartzo-felspathic rock** with limestone, carrying a little iron pyrites.—“Iron Horse” claim.—Coll., E. D. Ingall, 1892. (233.)

GOLD AND SILVER ORES—*Continued.*From the Province of British Columbia—*Continued.*2.—WEST KOOTANIE DISTRICT—*Continued.**E.—Kaslo-Slocan Mines—Continued.*

Table-case	Galena —argentiferous.—“Lucky Jim” claim.—Coll., E. D. Ingall, 1892. (235.)
70.—	— in dolomitic limestone.—“Noble Five” claim.—Coll., E. D. Ingall, 1892. (246.)
<i>Continued.</i>	— “Great Western” claim.—Coll., E. D. Ingall, 1892. (261.)
	— “Washington” do do do (266.)
	— (so-called “ribbed” ore).—“Blue Bird” claim.—Coll., E. D. Ingall, 1892. (268.)
	— (so-called “spangle” ore).—“Blue Bird” claim.—Coll., E. D. Ingall, 1892. (269.)
	— (so-called “curved-face” ore).—“Blue Bird” claim.—Coll., E. D. Ingall, 1892. (270.)
	— “Slocan Boy” claim.—Coll., E. D. Ingall, 1892. (271.)
	— (so-called steel-ore) with dark red silver ore.—“Dardanelles” claim.—Coll., E. C. Ingall, 1892. (272.)
	— in quartz—argentiferous.—“Okanagan” claim.—Coll., E. D. Ingall, 1892. (275.)
	— with some iron pyrites and zinc blende in quartz and a little dolomite—argentiferous.—“Best” claim.—Coll. E. D. Ingall, 1892. (280.)
	Zinc blende in quartz.—“Slocan Star” claim.—Coll., E. D. Ingall, 1892. (281.)
	Galena —argentiferous.— do do do (282.)
	— do “Freddie Lee” claim.—Coll., E. D. Ingall, 1892. (289.)
	Weathered rock matter (ochre with galena).—“Freddie Lee” claim.—Coll., E. D. Ingall, 1892. (292.)
	Galena —argentiferous.—“Wellington” mine, two and a-half miles north-east of Bear Lake, Kaslo-Slocan road.—Coll., E. D. Ingall, 1892. (295.)
	Weathered rock matter .—“Wellington” mine.—Coll. E. D. Ingall, 1892. (296.)

A further specimen (No. 383) from the Wellington mine is shown in Wall-case No. 2.

F.—Big Bend region.

Auriferous quartz.—“Big Bend” claim, Big Bend, Columbia River. (5747.)
— “Homestead” claim, McCulloch Creek, Columbia River. (5748.)

G.—From other claims in the West Kootanie district.

Galena—argentiferous.—From about ten miles west of the summit of the Selkirk Range and within a mile and a half of the C. P. R. (5347.)

3.—SOUTHERN INTERIOR.

A.—Stump Lake, or Nicola Mines.

Galena, zinc blende, iron and copper pyrites and grey copper (tetrahedrite) in quartz—argentiferous.—“Star” claim.—Presented by G. Henderson, 1888. (5763.)
— zinc blende, iron pyrites and grey copper (tetrahedrite) in quartz—argentiferous.—“Joshua” claim.—Presented by Wm. Craib, 1888. (5764.)

GOLD AND SILVER ORES—*Continued.*From the Province of British Columbia—*Continued.*3.—SOUTHERN INTERIOR—*Continued.*A.—*Stump Lake, or Nicola Mines—Continued.*

- Galena**, copper pyrites and iron pyrites in quartz—argentiferous.—“King William” claim.—Presented by Wm. Craib, 1888. (5765.)
- with copper and iron pyrites in quartz—argentiferous.—“Tubal Cain” claim.—Presented by Wm. Craib, 1888. (5766.)
- and copper pyrites in quartz—argentiferous.—“Planet” claim.—Coll., G. M. Dawson, 1888. (5767.)
- in quartz—argentiferous.—“Mary Reynolds” claim.—Coll., G. M. Dawson, 1888. (5768.)
- in quartz—argentiferous.—“Ardmore” claim.—Coll., G. M. Dawson, 1888. (5769.)
- iron pyrites and grey copper (tetrahedrite) in quartz—argentiferous.—“Jenny Long” claim.—Coll., G. M. Dawson, 1888. (5770.)
- iron pyrites and zinc blende in quartz—argentiferous.—“Zeila” claim.—Coll., G. M. Dawson, 1888. (5771.)
- and iron pyrites in quartz—argentiferous.—“British Empire” claim.—Coll., G. M. Dawson, 1888. (5772.)

Table-case
70.—
Continued.

Further specimens from the Stump Lake Mines are Nos. 5491, 5706-5709 in upright Wall-case 1.

From other claims in the Southern Interior.

- Quartz**, with galena and iron pyrites—auriferous and argentiferous.—“Silver Queen” claim, Jamieson Creek, North Thompson River.—Coll., G. M. Dawson, 1888. (5773.)
- with copper pyrites and a little galena—auriferous and argentiferous.—“Nevada” claim, Tulameen River.—Coll., G. M. Dawson, 1888. (5774.)
- with iron pyrites—probably auriferous and argentiferous.—“Union” claim, Tulameen River.—Coll., G. M. Dawson, 1888. (5861.)
- Auriferous quartz**.—“Bonanza” claim, Cayoosh Creek.—Coll., G. M. Dawson, 1890. (5862.)
- “Stanley” ledge, Cayoosh Creek.—Coll., G. M. Dawson, 1890. (5863.)
- “Bee” claim, Cayoosh Creek.—Coll., G. M. Dawson, 1890. (5864.)
- Monashee mine, tunnel C, head waters of Cherry Creek and Kettle River.—Coll., G. M. Dawson, 1890. (5865.)
- Rock Creek, Kettle River, Okanagan.—Coll., G. M. Dawson, 1888. (5711.)
- Galena**—argentiferous.—Rock Creek, Kettle River, Okanagan. (5731.)
- Auriferous quartz**.—Big Slide mine, bank of Fraser River, near Kelly Lake Creek.—Coll., G. M. Dawson, 1889. (5866.)

4.—CARIBOO AND NORTHERN INTERIOR.

- Auriferous rock**.—Hixon Creek, Fraser River, north of Quesnel. (1223.)
- Galena**—argentiferous.—Sadou’s ledge, Mosquito Creek, Cariboo. (4628.)
- do —“Arctic Circle” claim, Boulder Creek, Omenica.—Coll., G. M. Dawson, 1877. (3526.)
- argentiferous.—“Acadia” claim, south fork of McDame Creek, Cassiar. (5562.)

SILVER ORES.

Ores of Silver from the Thunder Bay Mining Region, Lake Superior, Ontario.

Table-case 71.	Native Silver. —Singleton mine, township of McIntyre, O.—Coll., R. Bell, 1869.—Cambrian, C 1. (192.)
	— Thunder Bay mine, township of McGregor, O.—Coll., R. Bell, 1869.—Cambrian, C 1. (210.)
	— with niccolite.—“3 A” mine, township of McGregor, O.—Presented by Judge Van Norman, 1875.—Archean, A-B. (972.)
	— silver glance and zinc blende.—Shuniah or Duncan mine, township of McIntyre, O.—Coll., R. Bell, 1875.—Cambrian, C 1. (216.)
	— silver glance, galena and zinc blende.—Silver Islet, Lake Superior, O.—Coll., Thomas Macfarlane, 1865.—Cambrian, C 1. (343.)
	— silver glance and zinc blende.—Prince location, Spar Island, Lake Superior, O.—Coll., W. E. Logan, 1846.—Cambrian, C 1. (5995.)
	Silver glance. —Pine Bay, township of Crooks, O.—Coll., R. Bell, 1869.—Cambrian, C 1. (202.)
	— with zinc blende.—Beck or Silver Harbour mine, township of McGregor, O.—Coll., R. Bell, 1872.—Cambrian, C 1. (219.)
	Galena with zinc blende. —Pie Island, Lake Superior, O.—Coll., A. R. C. Selwyn, 1882.—Cambrian, C 1. (193.)
	Copper glance. —Spar Island, Lake Superior, O. (5997.)
	Silver minerals from the Porcupine (Twin Cities) mine, township of Gillies, O.—Cambrian, C 1.
	(1) Silver glance. (5289.)
	(2) do (5290.)
	(3) do with iron pyrites. (5291.)
	(4) do (5292.)
	(5) do (5293.)
	(6) do with native silver. (5294.)
	(7) do do do (5295.)
	(8) do with zinc blende. (5296.)

NOTE.—Of the foregoing Nos. 5289—5294 were presented by Mr. T. A. Kefer (1886), No. 5295 was collected by Mr. W. McInnes (1891) and No. 5296 by Mr. E. D. Ingall (1886).

Silver minerals from the Rabbit Mountain mine, location T 39, township of Paipouge, O.—Cambrian, C 1.

- (1) Silver glance. (5297.)
- (2) do (5298.)
- (3) do (5299.)
- (4) do (5300.)
- (5) do (5301.)
- (6) do (5302.)
- (7) Native silver. (5303.)
- (8) do (5304.)
- (9) Silver glance. (5305.)
- (10) do with zinc blende. (5306.)
- (11) Native silver with silver glance. (5307.)

NOTE.—Of the foregoing Nos. 5297—5304 were presented by Mr. T. A. Kefer (1886), No. 5305 by Mr. A. L. Russell (1886) and Nos. 5306 and 5307 by General Wild (1886).

SILVER ORES—*Continued.***From the Thunder Bay Mining Region—*Continued.***

Silver minerals from the Silver Mountain mine, mining location R 56, township of Lybster, O.—Cambrian, C 1.

- (1) Native silver with silver glance. (5373.)
- (2) do do do (5374.)
- (3) Silver glance. (5375.)
- (4) Native silver. (5376.)

Table-case
71.—
Continued

NOTE.—Of the foregoing Nos., 5373—5375 were presented by Mr. A. L. Russell (1886) and No. 5376 by Mr. W. H. Furlonge (1885).

Native silver with zinc blende.—Silver Hill claim, near Silver Mountain, mining location R 70, township of Lybster, O.—Presented by W. H. Furlonge, 1885.—Cambrian, C 1. (5378.)

Galena with zinc blende.—Badger mine, township of Gillies, O.—Coll., W. McInnes, 1891.—Cambrian, C 1. (5414.)

Silver minerals and ore from the Beaver mine, mining location T 97, township of O'Connor, O.—Cambrian, C 1.

- (1) Silver glance with zinc blende. (6535.)
- (2) Native silver, silver glance and zinc blende. (6536.)
- (3) Silver glance. (6537.)
- (4) do with iron pyrites. (6538.)
- (5) Zinc blende with silver glance. (6539.)
- (6) Galena, zinc blende and iron pyrites. (6540.)
- (7) Silver glance. (6541.)
- (8) do native silver and zinc blende. (6542.)
- (9) do with iron pyrites. (6543.)

NOTE.—Of the foregoing Nos. 6535, 6536 were presented by Mr. Kirkland (1885), No. 6537 by Mr. W. H. Furlonge (1885), Nos. 6538—6541 by Mr. T. A. Keefer (1888) and Nos. 6542, 6543 were collected by Mr. W. McInnes (1891).

Native silver.—3 A mine, township of McGregor, district of Thunder Bay, O.—Presented by Judge Van Norman, 1875.—Huronian, B. (335.)

— silver glance and zinc blende.—Silver Mountain, township of Lybster, district of Thunder Bay, O.—Presented by Oliver Daunais, 1884.—Cambrian, C 1. (4911.)

— and zinc blende.—Mining location R 238, north of Atik Lake, west of Whitefish Lake, district of Thunder Bay, O.—Presented by W. A. Allan, 1887.—Cambrian, C 1. (5450.)

Silver glance (argentite).—Jarvis Island, Lake Superior, district of Thunder Bay, O.—Coll., R. Bell, 1875.—Cambrian, C 1. (337.)

— Rabbit Mountain, district of Thunder Bay, O.—Coll., A. R. C. Selwyn, 1882.—Cambrian, C 1. (3542.)

— Rabbit Mountain mine, location 39 T, township of Paipoonge, district of Thunder Bay, O.—Presented by General Wild, 1887.—Cambrian, C 1. (5415.)

Sylvanite, with silver glance, galena and copper pyrites.—Huronian mine, lot H 1, township of Moss, district of Thunder Bay, O.—Coll., A. R. C. Selwyn, 1883.—Huronian, B. (186.)

Vitreous copper ore (chalcocite) with native silver.—Spar Island, Lake Superior, district of Thunder Bay, O.—Cambrian, C 1. (344.)

Zinc blende (sphalerite), with galena—argentiferous.—From hanging-wall of vein, mining location C 45, near Little Pic River, district of Thunder Bay, O.—Coll., R. Bell, 1875.—Huronian, B. (185.)

Upright
wall-case
2.

SILVER ORES—*Continued.***From the Thunder Bay Mining Region—Continued.**

Upright wall-case
2.—
Continued.

Zinc blende—Rabbit Mountain, location 39 T, township of Paipoonge, district of Thunder Bay, O.—Coll., E. D. Ingall, 1886.—Cambrian, C 1. (5994.)

Specimens of silver-lead ore from this region are also shown in this case—See further on under the heading, “Silver-lead and lead ore,” Nos. 191, 194, 201, 255, 339 and 5643.

The following specimens of silver ore are from the provinces of British Columbia and Quebec.

Copper pyrites (chalcopyrite), galena, native silver and silver glance.—Suffield mine, lot 3, range XI. of Ascot, Sherbrooke county, Q.—Pre-Cambrian, B? (331.)

— galena and silver glance.—Suffield mine, lot 3, range XI. of Ascot, Sherbrooke county, Q.—Pre-Cambrian, B? (332.)

— with silver glance.—Suffield mine, lot 3, range XI. of Ascot, Sherbrooke county, Q.—Pre-Cambrian, B? (338.)

Native silver—Wellington mine, two and a-half miles north-east of Bear Lake, Kaslo-Slocan road, West Kootanie district, B.C.—Presented by Hector McRae, 1892. (383.)

Grey copper (tetrahedrite), galena and zinc blende—argentiferous.—Cherry Creek, Shuswap Lake, B.C.—Coll., G. M. Dawson, 1877. (367.)

Argentiferous veinstone.—Eureka mine, Fort Hope, Fraser River, B.C.—Coll., J. Richardson, 1875. (973.)

— Victoria mine, Fort Hope, Fraser River, B.C.—Coll., J. Richardson, 1875. (974.)

SILVER-LEAD AND LEAD ORE.

Galena (galenite)—argentiferous.—Nigadoo mine, Nigadoo River, Gloucester county, N.B.—Coll., R. W. Ells, 1881.—Silurian, E. (3620.)

— with iron pyrites.—Mill Stream, parish of Beresford, about fifteen miles from Bathurst, Gloucester county, N.B.—Cambro-Silurian, D. (4775.)

— Cap Bon Ami, Gaspé county, Q.—Coll., R. Bell, 1862.—Silurian, E 6. (309.)

— Indian Cove, Gaspé Bay, Gaspé county, Q.—Coll., R. Bell, 1862.—Devonian, F. (310.)

— Lot 32, range V. of Acton, Bagot county, Q.—Coll., J. Richardson.—Cambrian, C. (312.)

— Lot 51, range XXI. of Upton, Bagot county, Q.—Coll., J. Richardson.—Cambrian, C. (323.)

— One mile west of St. Fabien, Rimouski county, Q.—Coll., J. Richardson, 1878.—Cambrian, C. (189.)

— Cook's Corner, St. Armand, Missisquoi county, Q.—Cambro-Silurian, D. (315.)

— with iron pyrites, copper pyrites and grey copper—argentiferous.—From “main vein,” lot 1, range XV. of Risborough, Beauce county, Q.—Coll., R. W. Ells, 1885.—Cambrian, C. (5132.)

— with iron pyrites—argentiferous.—From “cross vein,” lot 1, range XV. of Risborough, Beauce county, Q.—Coll., R. W. Ells, 1885.—Cambrian, C. (5133.)

SILVER-LEAD AND LEAD ORE—*Continued.*

- Galena** (galenite)—with iron pyrites—argentiferous.—From “small vein,” lot 1, range XV. of Risborough, Beauce county, Q.—Coll., R. W. Ells, 1885.—Cambrian, C. (5134.)
- Lots 20 and 21, range IV. of Buckingham, Ottawa county, Q.—Coll., H. G. Vennor, 1875.—Laurentian, A. (313.)
- argentiferous.—Wright’s mine, Block A and B, range I. of Duhamel, east shore of Lake Temiscamingue, Pontiac county, Q.—Huronian, B. (190.)
- argentiferous.—South side of Little Whale River, east coast of Hudson Bay.—Coll., R. Bell, 1877.—Cambrian, C. (1202.)
- argentiferous.—North shore of Lake Temiscamingue, district of Nipissing, O.—Presented by E. V. Wright, 1883. (366.)
- Fitzroy lead mine, lot 25, range VII. of Fitzroy, Carleton county, O.—Coll., F. D. Adams, 1885.—Laurentian, A. (2583.)
- Ramsay lead mine, lot 3, range VI. of Ramsay, Lanark county, O.—Coll., H. G. Vennor.—Cambrian, C 2. (321.)
- From the property of Dr. Lynch, range IV. of Ramsay, Lanark county, O.—Presented by W. H. Wylie, 1883.—Cambrian, C 2. (325.)
- Lot 1, range VIII. of Lansdowne, Leeds county.—Coll., A. Murray, 1851.—Laurentian, A. (316.)
- Lot 1, range III. of Limerick, Hastings county, O.—Coll., R. Bell, 1875.—Laurentian, A. (188.)
- Tudor, Hastings county, O.—Coll., H. G. Vennor, 1868.—Laurentian, A. (319.)
- Frontenac lead mine, south half of lot 16, range IX. of Loughborough, Frontenac county, O.—Laurentian, A. (320.)
- Lot 19, range VII. of Bedford, Frontenac county, O.—Coll., H. G. Vennor, 1868.—Laurentian, A. (322.)
- argentiferous.—Lot 12, range VIII. of Barrie, Frontenac county, O.—Laurentian, A. (349.)
- Galway, Peterborough county, O.—Laurentian, A. (328.)
- with zinc blende—argentiferous.—Cascade mine, Garden River, near Sault Ste. Marie, district of Algoma, O.—Coll., T. C. Weston, 1882.—Huronian, B. (238.)
- argentiferous.—Victoria mine, Garden River, near Sault Ste. Marie, district of Algoma, O.—Coll., R. Bell, 1876.—Huronian, B. (358.)
- Pointe aux Mines, Lake Superior, district of Algoma, O.—Coll., W. E. Logan, 1846.—Cambrian, C 1. (342.)
- with zinc blende—argentiferous.—From foot-wall of vein, mining location C 45, near Little Pic River, Lake Superior, district of Thunder Bay, O.—Coll., R. Bell, 1875.—Huronian, B. (191.)
- argentiferous.—From three miles west of the mouth of Little Pic River, Lake Superior, district of Thunder Bay, O.—Coll., R. Bell, 1875.—Huronian, B. (183.)
- Lot 10, range VI. of Dorion, district of Thunder Bay, O.—Coll., W. E. Logan, 1846.—Cambrian, C 1. (187.)
- Granite Island, Black Bay, Lake Superior, district of Thunder Bay, O.—Coll., W. E. Logan, 1846.—Archean, A-B. (314.)
- argentiferous.—Island No. 2 in Silver Lake, township of McTavish, district of Thunder Bay, O.—Coll., R. Bell, 1875.—Cambrian, C 1. (181.)
- with copper pyrites—auriferous and argentiferous.—Enterprise mine, township of McTavish, district of Thunder Bay, O.—Coll., R. Bell, 1875.—Cambrian, C 1. (339.)

Upright
wall-case
2.—*Continued.*

SILVER-LEAD AND LEAD ORE—*Continued.*

- Upright wall-case 2.—
Continued.
- Galena** (galenite)—argentiferous.—Silver Islet, Lake Superior, district of Thunder Bay, O.—Coll., A. R. C. Selwyn, 1882.—Cambrian, C 1. (194.)
- with zinc blende—argentiferous.—Average sample of ore from vein, Silver Islet, Lake Superior, district of Thunder Bay, O.—Coll., A. R. C. Selwyn, 1882.—Cambrian, C 1. (201.)
- Woods' location, township of Sibley, district of Thunder Bay, O.—Coll., W. E. Logan, 1846.—Cambrian, C 1. (311.)
- with zinc blende—argentiferous.—Pie Island (Dawson) mine, Pie Island, Lake Superior, district of Thunder Bay, O.—Coll., R. Bell, 1875.—Cambrian, C 1. (255.)
- with zinc blende and native silver.—Beaver mine, location 97 T, township of O'Connor, district of Thunder Bay, O.—Presented by T. A. Keefer, 1888.—Cambrian, C. 1. (5643.)
- with copper pyrites—argentiferous.—Sterling mine, Kokesaila River, Cowichan, Vancouver Island, B.C.—Coll., G. M. Dawson, 1881. (242.)
- Calcite**, quartz, fluorite and zinc blende.—Beaver mine, location 97 T, township of O'Connor, district of Thunder Bay, O.—Presented by T. A. Keefer, 1888.—Cambrian, C. (5639.)
- zinc blende and quartz.—Rabbit Mountain mine, location 39 T, township of Paipoonge, district of Thunder Bay, O.—Presented by T. A. Keefer, 1888.—Cambrian, C. (5640.)
- Fluorite** and quartz.—Beaver mine, location 97 T, township of O'Connor, district of Thunder Bay, O.—Presented by T. A. Keefer, 1888.—Cambrian, C. (5644.)

SPECIMENS ILLUSTRATING THE DISTRIBUTION OF SILVER-LEAD AND LEAD ORE.

- Upright table-case 32.
- Galena.**—From a mine on Mill stream, Beresford, Gloucester county, N.B.—Presented by W. R. Byrne, 1890.—Cambro-Silurian, D. (5592.)
- Nigadoo mine, Nigadoo River, Gloucester county, N.B.—Coll., R. W. Ells, 1881.—Silurian, E. (182.)
- Indian Cove, Gaspé county, Q.—Coll., R. Bell, 1862.—Devonian, F. (3602.)
- Cap Bon Ami, Gaspé county, Q.—Coll., R. Bell, 1862.—Silurian, E 6. (3605.)
- Percé, Gaspé county, Q.—Coll., W. E. Logan, 1843.—Devonian, F. (3616.)
- Grande Grève, Gaspé county, Q.—Coll., H. P. Brumell, 1882.—Devonian, F. (3617.)
- One mile west of St. Fabien, Rimouski county, Q.—Coll., J. Richardson, 1878.—Cambrian, C. (3608.)
- Cook's Corner, St. Armand, Missisquoi county, Q.—Coll., J. Richardson.—Cambro-Silurian, D. (3606.)
- Brome, Brome county, Q.—Pre-Cambrian, B? (3614.)
- Owls Head, lot 8, range XI. of Pottou, Brome county, Q.—Coll., W. E. Logan.—Pre-Cambrian, B? (5522.)
- Lot 9, range IX. of Ascot, Sherbrooke county, Q.—Coll., J. Richardson.—Pre-Cambrian, B? (355.)
- with copper pyrites.—Lot 51, range XXI. of Upton, Bagot county, Q.—Coll., W. E. Logan, 1847.—Cambrian, C. (3529.)
- Lot 19, range V. of Milton, Shefford county, Q.—Coll., J. Richardson, 1863.—Cambrian, C. (3525.)

SPECIMENS ILLUSTRATING THE DISTRIBUTION OF SILVER-LEAD AND LEAD ORE—*Continued.*

- Galena.**—Lots 20 and 21, range IV. of Buckingham, Ottawa county, Q.—Coll., H. G. Vennor, 1875.—Laurentian, A. (3519.)
- Wright's mine, Block A & B, range I. of Duhanel, Pontiac county, Q.—Huronian, B. (3609.)
- South side of entrance to Richmond Gulf, Hudson Bay.—Coll., R. Bell, 1877.—Cambrian, C. (3517.)
- Little Whale River, east coast of Hudson Bay.—Coll., R. Bell, 1877.—Cambrian, C. (3530.)
- Fitzroy lead mine, lot 25, range VII. of Fitzroy, Carleton county, O.—Coll., F. D. Adams, 1885.—Laurentian, A. (5050.)
- Ramsay lead mine, lot 3, range VI. of Ramsay, Lanark county, O.—Coll., R. Oatey, 1857.—Cambrian, C 2. (3566.)
- Lot 16, range III. of Dalhousie, Lanark county, O.—Laurentian, A. (5454.)
- Lot 8, range II. of Lansdowne, Leeds county, O.—Coll., A. Murray, 1851.—Laurentian, A. (3528.)
- Lot 17, range IX. of Storrington, Frontenac county, O.—Coll., R. Bell, 1875.—Laurentian, A. (3515.)
- Lot 21, range VIII. of Bedford, Frontenac county, O.—Laurentian, A. (318.)
- Lot 9, range IX. of Bedford, Frontenac county, O.—Laurentian, A. (1758.)
- Lot 18, range VIII. of Bedford, Frontenac county, O.—Coll., A. Murray, 1852.—Laurentian, A. (3613.)
- with zinc blende, in dolomite.—Tudor, Hastings county, O.—Coll., H. G. Vennor, 1868. (3520.)
- Lot 28, range B. of Tudor, Hastings county, O.—Coll., T. Macfarlane, 1866.—Laurentian, A. (3618.)
- Lots 28 and 29, range XIV. of Tudor, Hastings county, O.—Coll., H. G. Vennor, 1868.—Laurentian, A. (3521.)
- Lot 1, range III. of Limerick, Hastings county, O.—Coll., R. Bell, 1875.—Laurentian, A. (3600.)
- Lot 3, range I. of Snider, district of Algoma, O.—Huronian, B. (5453.)
- with copper pyrites and zinc blende.—Victoria mine, Garden River, near Sault Ste. Marie, district of Algoma, O.—Coll., R. Bell, 1876.—Huronian, B. (3524.)
- Victoria mine, Garden River, near Sault Ste. Marie, district of Algoma, O.—Coll., R. Bell, 1876.—Huronian, B. (3527.)
- Victoria mine, Garden River, near Sault Ste. Marie, district of Algoma, O.—Coll., T. C. Weston, 1882.—Huronian, B. (5804.)
- Pointe aux Mines, Lake Superior, district of Algoma, O.—Coll., W. E. Logan, 1846.—Cambrian, C 1. (3603.)
- Michipicoten Island, Lake Superior, district of Thunder Bay, O.—Coll., W. E. Logan, 1846.—Cambrian, C 1. (3610.)
- Granite Island, Black Bay, Lake Superior, district of Thunder Bay, O.—Archean, A B. (3604.)
- Island No. 2 in Silver Lake, township of MacTavish, district of Thunder Bay, O.—Coll., R. Bell, 1875.—Cambrian, C 1 (3615.)
- Lot 8, Silver Lake mining location, township of MacTavish, district of Thunder Bay, O.—Coll., R. Bell, 1875.—Cambrian, C 1 (3516.)

Upright
table-case
32.—
Continued.

SPECIMENS ILLUSTRATING THE DISTRIBUTION OF SILVER-LEAD AND LEAD ORE—Continued.

- Upright table-case 32.—Continued.
- Galena.**—with zinc blende.—Near Little Pic River, district of Thunder Bay, O.—Coll., R. Bell, 1875.—Huronian, B. (3612.)
- Boulder Island, Big Stone Bay, Lake of the Woods, district of Rainy River, O.—Coll., R. Bell, 1878.—Huronian, B. (3523.)
- zinc blend and iron pyrites.—Otter-tail Creek, seven miles west of Field station, C.P.R., Rocky Mountains, B.C.—Coll., R. G. McConnell, 1886. (5397.)
- Monarch claim, Mount Stephen, near Field station, C.P.R., Rocky Mountains, B.C.—Coll., R. G. McConnell, 1886. (5802.)
- Cornucopia claim, Mount Stephen, near Field station, C.P.R., Rocky Mountains, B.C.—Coll., R. G. McConnell, 1886. (5803.)

Further specimens of silver and lead-ores will be found in upright wall-case 1, and separate table-cases 47, 48, 70 and 71.

ANTIMONY ORES.

- Upright wing-case 3.
- Native antimony.**—Lot 28, range I. of South Ham, Wolfe county, Q.—Coll., C. W. Willimott, 1882.—Pre-Cambrian, B? (350.)
- Antimony glance** (stibnite).—Lake George, parish of Prince William, York county, N.B.—Lake George Mining Company.—Coll., W. Broad, 1880.—Cambro-Silurian, D. (326.)
- Lake George, parish of Prince William, York county, N.B.—Brunswick Mining Company.—Coll., W. Broad, 1880.—Cambro-Silurian, D. (327.)
- Lake George, parish of Prince William, York county, N.B.—Hibbard Mining Company.—Coll., W. Broad, 1880.—Cambro-Silurian, D. (352.)
- West Gore, Hants county, N.S.—Presented by A. G. Macnaughton, 1888.—Cambrian, C. (5552.)
- Lot 28, range I. of South Ham, Wolfe county, Q.—Coll., C. W. Willimott, 1882.—Pre-Cambrian, B? (351.)

Specimens illustrating the distribution of antimony ores are shown in upright table-case 25.

NICKEL ORES.

- Magnetic pyrites** (pyrrhotite)—nickeliferous.—Todd's mine, about three miles north of St. Stephen, Charlotte county, N.B.—Coll., H. P. Brumell, 1891. (354.)
- Millerite** with chrome garnet in calcite.—Orford nickel mine, lot 6, range XII. of Orford, Sherbrooke county, Q. (647.)
- Magnetic pyrites** (pyrrhotite)—nickeliferous, with copper pyrites (chalcopyrite).—Worthington mine, lot 2, range II. of Drury, district of Algoma, O.—Coll., A. E. Barlow, 1891.—Huronian, B. (2480.)
- Magnetic pyrites** (pyrrhotite)—nickeliferous.—O'Connor's claim, lot 11, range V. of Lorne, district of Algoma, O.—Coll., A. E. Barlow, 1890.—Huronian, B. (4921.)
- Copper pyrites** (chalcopyrite), with magnetic pyrites (pyrrhotite)—nickeliferous.—Copper Cliff mine, lot 12, range II. of McKim, district of Nipissing, O.—Huronian, B. This and the four following exhibits were presented by J. D. Evans, manager of the Canadian Copper Company, 1890. (5960.)

NICKEL ORES—*Continued.*

- Magnetic pyrites** (pyrrhotite)—nickeliferous.—Copper Cliff mine, lot 12, range II. of McKim, district of Nipissing, O.—Huronian, B. (5961.)
- Magnetic pyrites** with some copper pyrites (chalcopyrite).—Evans' mine, lot 1, range I. of Snider, district of Algoma, O.—Huronian B. (5962.)
- Mixed ore** of the Copper Cliff and Evans mines (Nos. 5959–5962), after calcination. (5963.)
- Coarse metal** or matte obtained from calcined ore (No. 5963). (5964.)
- Nickel ore.**—Wallace mine, about one mile west of the mouth of Whitefish River, Lake Huron, district of Algoma, O.—Coll., A. Murray, 1848.—Huronian, B. (348.)
- Magnetic pyrites** (pyrrhotite) with copper pyrites (chalcopyrite).—One mile from Jackfish Bay, Lake Superior, district of Thunder Bay, O.—Huronian, B. (334.)

Upright
wing-case
3.—
Continued.

Specimens illustrating the distribution of nickel ores are shown in upright table-cases Nos. 25 and 26.

ZINC ORE.

- Zinc blende** (sphalerite).—Lot 10, range IV. of Calumet, Pontiac county, Q.—Coll., W. H. Murphy, 1888.—Laurentian, A. (5455.)
- Lot 18, range I. of Elzevir, Hastings, county, O.—Coll., H. G. Vennor, 1872.—Laurentian, A. (361.)
- Pointe aux Mines, Lake Superior, district of Algoma, O.—Coll., W. E. Logan, 1846.—Cambrian, C 1. (363.)
- Zenith zinc mine, about eleven miles north-east of Rosspoint (formerly McKay's Harbour), P. R., district of Thunder Bay, O.—Presented by T. A. Keefar, 1885.—Huronian, B. (5371.)
- Kaministiquia River, district of Thunder Bay, O.—Coll., A. Murray, 1846.—Cambrian, C 1. (360.)

Specimens illustrating the distribution of zinc ore are shown in upright table-case 26.

BISMUTH ORE.

Specimens of this ore are shown in upright table-case 25.

COBALT ORE.

A specimen of cobaltic mispickel (Danaite) is shown in the systematic collection of minerals, table-case 51.

MERCURY ORE.

Specimens of native mercury and cinnabar are shown in the systematic collection of minerals. The former in table-case 49, the latter in table-case 50 and upright table-case 37.

PLATINUM.

Upright
wing-case
3.—
Continued.

Specimens of native platinum and platinum arsenide are shown in the systematic collection of minerals. The former in table-case 49, the latter in table-case 51.

The following, for which space could not be found in a more appropriate place, are also shown in this case.

ARSENIC ORE.

Arsenical pyrites (arsenopyrite, mispickel).—Gatling mine, lot 10, range VIII, of Marmora, Hastings county, O.—Coll., H. G. Vennor, 1871.—Archean, A. B. (364.)

Specimens illustrating the distribution of arsenical pyrites are shown in upright table-case 25, and a specimen of native arsenic will be found in the systematic collection of minerals, table-case 49.

CHROMIUM ORE.

Chromic iron ore (chromite).—Mount Albert, Shickshock Mountains, Gaspé county, Q.—Coll., J. Richardson, 1858.—Pre-Cambrian, A. B. (539.)

- Lot 1, range X. of Leeds, Megantic county, Q.—Presented by Dr. Reed, 1885.—Pre-Cambrian, B? (5234.)
- Lot 9, range X. of Cleveland, Richmond county, Q.—Coll., J. Richardson.—Pre-Cambrian, B? (5456.)
- Lot 23, range VI. of Bolton, Brome county, Q.—Coll., J. Richardson, 1865.—Pre-Cambrian, B? (472.)
- Lot 40, range II. of South Ham, Wolfe county, Q.—Coll., J. Richardson, 1865.—Cambrian, C. (485.)

Specimens illustrating the distribution of this ore are shown in upright table-case 31.

MOLYBDENUM ORE.

Molybdenite.—Harvey Hill, Leeds, Megantic county, Q.—Coll., C. W. Wilimott, 1882.—Pre-Cambrian, B? (696.)

- Lot 7, range IX. of Ross, Renfrew county, O.—Coll., C. W. Wilimott, 1883.—Laurentian, A. (359.)
- Lot 22, range II. of Ross, Renfrew county, O.—Coll., C. W. Wilimott, 1883.—Laurentian, A. (440.)

Specimens illustrating the distribution of this ore are shown in upright table-case 31.

SULPHUR ORE.

Iron pyrites (pyrite) and copper pyrites (chalcopyrite).—Lot 22, range I. of Garthby, Wolfe county, Q.—Coll., J. Richardson, 1858.—Pre-Cambrian, B? (368.)

SULPHUR ORE—*Continued.*

- Iron pyrites.**—Lot 19, range II. of Elizabethtown, Leeds county, O.—Laurentian, A. (369.) Upright wing-case 3.—*Continued.*
- Lot 5, range IV. of Darling, Lanark county, O.—Presented by W. H. Wylie, 1886.—Laurentian, A. (330.)
- North-west shore of Hudson Bay, south of Chesterfield Inlet, district of Keewatin.—Coll., R. Bell, 1885. (5343.)
- From the head of Eckstall Inlet, south of Port Essington, Skeena River, B.C. (5075.)

Specimens illustrating the distribution of ore of sulphur are shown in upright table-case 31.

SPECIMENS ILLUSTRATING THE DISTRIBUTION OF
ORES OF ANTIMONY, ARSENIC, BISMUTH,
NICKEL AND ZINC.**Ores of Antimony.**

- Native antimony.**—Parish of Prince William, York county, N.B.—Coll., L. W. Bailey, 1883.—Cambro-Silurian, D. (3748.) Upright table-case 25.
- Antimony glance** (stibnite).—Lake George, parish of Prince William, York county, N.B., Brunswick Mining Company.—Coll., W. Broad, 1880.—Cambro-Silurian, D. (3624.)
- Lake George, parish of Prince William, York county, N.B., Hibbard Mining Company.—Coll., W. Broad, 1880.—Cambro-Silurian, D. (3625.)
- Lake George, parish of Prince William, York county, N.B., Lake George Mining Company.—Coll., W. Broad, 1880.—Cambro-Silurian, D. (3626.)
- Lot 28, range I. of South Ham, Wolfe county, Q.—Coll., C. W. Willimott, 1882.—Pre-Cambrian, B? (3627.)
- Three miles north-west of the north end of Echo Lake, district of Algoma, O.—Coll., R. Bell, 1876.—Huronian, B. (3628.)
- Kermesite, valentinite, senarmontite and stibnite.**—Lot 28, range I. of South Ham, Wolfe county, Q.—Coll., C. W. Willimott, 1882.—Pre-Cambrian, B? (3621.)
- Native antimony, with kermesite and valentinite.**—Lot 28, range I. of South Ham, Wolfe county, Q.—Coll., C. W. Willimott, 1882.—Pre-Cambrian, B? (3622.)
- Native antimony with stibnite, kermesite and valentinite.**—Lot 28, range I. of South Ham, Wolfe county, Q.—Coll., C. W. Willimott, 1882.—Pre-Cambrian, B? (3623.)
- Valentinite and kermesite.**—Lot 28, range I. of South Ham, Wolfe county, Q.—Coll., C. W. Willimott, 1882.—Pre-Cambrian, B? (3586.)

See also specimens contained in upright wing-case 3.

Ore of Arsenic.

- Arsenical pyrites** (arsenopyrite).—Montague, Halifax county, N.S.—Coll., A. R. C. Selwyn, 1870.—Cambrian, C 1. (1313.)
- Ascot, Sherbrooke county, Q.—Coll., J. Richardson.—Pre-Cambrian, B? (1885.)
- Gillen mine, lot 6, range VIII. of Marmorata, Hastings county, O.—Coll., H. G. Vennor, 1871.—Archean, A. B. (365.)

See also specimens contained in upright wing-case 3.

SPECIMENS ILLUSTRATING THE DISTRIBUTION OF
ORES OF ANTIMONY, ETC.—*Continued.***Ore of Bismuth.**

- Upright
table-case
25.—
Continued.
- Bismuth glance** (bismuthinite).—Lepreau, Charlotte county, N.B.—Pre-Cambrian, A. B. (290.)
- Lot 34, range III. of Tudor, Hastings county, O.—Coll., H. G. Vennor, 1875.—Laurentian, A. (345.)
- McKenzie River, north of the C.P.R. crossing, district of Thunder Bay, O.—Coll., A. R. C. Selwyn, 1885.—Huronian, B. (5047.)

Ores of Nickel.

- Copper pyrites**, with magnetic pyrites—nickeliferous.—L'Etete, Charlotte county, N.B.—Pre-Cambrian, A. B. (4892.)
- Magnetic pyrites**—nickeliferous.—Ganong's vein, Milltown, St. Stephen, Charlotte county, N.B.—Coll., H. P. Brumell, 1891. (4939.)
- Three miles north of St. Stephen, Charlotte county, N.B. (6528.)
- Millerite** with chrome garnet in calcite.—Lot 6, range XII. of Orford, Sherbrooke county, Q.—Pre-Cambrian, B? (5602.)
- Iron pyrites**, with magnetic pyrites—nickeliferous.—Lots 27 and 28, range VIII. of Clarendon, Pontiac county, Q.—Laurentian, A. (5965.)
- Magnetic pyrites**—nickeliferous, with copper pyrites.—Murray mine, lot 11, range V. of McKim, district of Nipissing, O.—Coll., A. E. Barlow, 1891.—Huronian, B. (4644.)
- Copper pyrites**, with magnetic pyrites—nickeliferous.—Copper Cliff mine, lot 12, range II. of McKim, district of Nipissing, O.—Coll., A. E. Barlow, 1890.—Huronian, B. (5954.)
- Magnetic pyrites**—nickeliferous, with copper pyrites.—Copper Cliff mine, lot 12, range II. of McKim, district of Nipissing, O. (5955.)
- Copper pyrites**, with magnetic pyrites—nickeliferous.—Copper Cliff mine, lot 12, range II. of McKim, district of Nipissing, O.—Presented by the Canadian Copper Company, J. D. Evans, manager, 1885. (5957.)
- Magnetic pyrites**—nickeliferous.—Lot 3, range IV. of Broder, district of Nipissing, O.—Coll., A. E. Barlow, 1891.—Huronian, B. (4664.)
- Copper pyrites**.—Bonanza mine, east side of Wahnapiæ Lake, district of Nipissing, O.—Coll., A. E. Barlow, 1891.—Huronian, B. (4700.)
- Magnetic pyrites**—nickeliferous, with copper pyrites.—Stobie mine, lot 5, range I. of Blezard, district of Nipissing, O.—Coll., A. E. Barlow, 1889.—Huronian, B. (5953.)
- Magnetic pyrites**—nickeliferous.—McCormick's mine, lot 12, range III. of Neelon, district of Nipissing, O.—Coll., A. E. Barlow, 1890.—Huronian, B. (5980.)
- Upright
table-case
26.
- Magnetic pyrites**—nickeliferous, with copper pyrites.—Evans' mine, lot 1, range I. of Snider, district of Algoma, O.—Presented by the Canadian Copper Company, J. D. Evans, manager, 1885.—Huronian, B. (5958.)
- Magnetic pyrites**—nickeliferous.—Lot 12, range III. of Denison, district of Algoma, O.—Coll., A. E. Barlow, 1891.—Huronian, B. (4697.)
- Copper pyrites**, with magnetic pyrites—nickeliferous.—Vermilion mine, lot 5 (and 6), range IV. of Denison, district of Algoma, O.—Coll., A. E. Barlow, 1891.—Huronian, B. (5948.)

SPECIMENS ILLUSTRATING THE DISTRIBUTION OF
ORES OF ANTIMONY, ETC.—*Continued.***Ores of Nickel**—*Continued.*

- Magnetic pyrites**—nickeliferous, with copper pyrites and galena.—Travers mine, lot 3, range V. of Drury, district of Algoma, O.—Coll., A. E. Barlow, 1891.—Huronian, B. (4668.) Upright table-case 26.—*Continued.*
- Copper pyrites**, with magnetic pyrites—nickeliferous.—Worthington mine, lot 2, range II. of Drury, district of Algoma, O.—Coll., A. E. Barlow, 1890.—Huronian, B. (5940, 5941.)
- Copper pyrites**.—Worthington mine, lot 2, range II. of Drury, district of Algoma, O.—Coll., A. E. Barlow, 1890.—Huronian, B. (5942, 5943.)
- Magnetic pyrites**—nickeliferous.—Worthington mine, lot 2, range II. of Drury, district of Algoma, O.—Coll., A. E. Barlow, 1891.—Huronian, B. (5944.)
- Copper pyrites**, with magnetic pyrites—nickeliferous.—Worthington mine, lot 2, range II. of Drury, district of Algoma, O.—Coll., A. E. Barlow, 1891.—Huronian, B. (5945, 5946, 5947.)
- Magnetic pyrites**—nickeliferous.—Dwyer and Loughran's location, lot 3, range III. of Drury, district of Algoma, O.—Coll., A. E. Barlow, 1890.—Huronian, B. (5949.)
- O'Connor's claim, lot 11, range V. of Lorne, district of Algoma, O.—Coll., A. E. Barlow, 1890.—Huronian, B. (5950.)
- Lot 9, range VI. of Lorne, district of Algoma, O.—Coll., A. E. Barlow, 1890.—Huronian, B. (6526.)
- O'Connor's claim, lots 1 and 2, range III. of Nairn, district of Algoma, O.—Coll., A. E. Barlow, 1891.—Huronian, B. (5951.)
- with copper pyrites.—Lots 1 and 2, range VI. of Nairn, district of Algoma, O.—Coll., A. E. Barlow, 1891.—Huronian, B. (5952.)
- with copper pyrites.—Lot 3, range IV. of Levack, district of Algoma, O.—Coll., A. E. Barlow, 1891. (4683.)
- Copper pyrites** with a nickeliferous iron sulphite.—Wallace mine, about one mile west of the mouth of Whitefish River, Lake Huron, district of Algoma, O.—Coll., A. Murray, 1848.—Huronian, B. (4718.)

See also specimens contained in upright wing-case 3.

Ore of Zinc.

- Zinc blende** (sphalerite).—St. Armand, Missisquoi county, Q.—Presented by O. Lagrange, 1875.—Pre-Cambrian, B? (1287.)
- Lot 10, range IV. of Calumet, Pontiac county, Q.—Presented by W. H. Murphy, 1888.—Laurentian, A. (1149.)
- Pointe aux Mines, Lake Superior, district of Algoma, O.—Coll., W. E. Logan, 1846.—Cambrian, C 1. (1194.)
- Victoria mine, Garden River, near Sault Ste. Marie, district of Algoma, O.—Coll., R. Bell, 1875.—Huronian, B. (356.)
- McKellar's Island, Lake Superior, district of Thunder Bay, O.—Coll., R. Bell, 1870.—Cambrian, C 1. (1280.)
- Kaministiquia River, district of Thunder Bay, O.—Coll., A. Murray, 1846.—Cambrian, C 1. (1214.)
- McIntyre's mine, between Thunder Bay and Black Bay, Lake Superior, O.—Coll., R. Bell, 1869.—Cambrian, C 1. (1285.)
- Zenith zinc mine, about eleven miles north-east of Rosspoint (formerly McKay's Harbour), C. P. R., district of Thunder Bay, O.—Coll., R. Bell.—Huronian, B. (3544.)

SPECIMENS ILLUSTRATING THE DISTRIBUTION OF ORES OF ANTIMONY, ETC.—*Continued.***Ore of Zinc**—*Continued.*

- Upright table-case 26.—
Continued.
- Zinc blende.**—Prince's location, Lake Superior, district of Thunder Bay, O.—Coll., W. E. Logan, 1846.—Cambrian, C 1. (1282.)
- Head of the south branch of the Red Deer River, Rocky Mountains, district of Alberta, N.W.T.—Presented by J. R. Costigan, 1885. (5084.)

SPECIMENS ILLUSTRATING THE DISTRIBUTION OF ORES OF CHROMIUM, MOLYBDENUM, SULPHUR AND MANGANESE.

Ore of Chromium.

- Upright table-case 31.
- Chromic iron ore** (chromite).—Mount Albert, Shickshock Mountains, Gaspé county, Q.—Coll., J. Richardson, 1858.—Pre-Cambrian, A. B. (4761.)
- Lot 40, range II. of South Ham, Wolfe county, Q.—Coll., J. Richardson.—Cambrian, C. (4767.)
- Lot 17, range IV. of Thetford, Megantic county, Q.—Coll., N. J. Giroux, 1889.—Cambrian, C. (5193.)
- Lot 16, range IV. of Thetford, Megantic county, Q.—Presented by Dr. Reed, 1886.—Cambrian, C. (5329.)
- Lot 19, range X. of Coleraine, Megantic county, Q.—Presented by Dr. Reed, 1886.—Cambrian, C. (5330.)
- Lot 10, range X. of Leeds, Megantic county, Q.—Coll., N. J. Giroux, 1889.—Pre-Cambrian, B? (5379.)

Ore of Molybdenum.

- Molybdenite.**—North River, St. Ann's, Victoria county, Cape Breton, N.S.—Pre-Cambrian, A. B. (1780.)
- Chegoggin Point, about four miles north of Yarmouth, Yarmouth county, N.S.—Cambrian, C. (5055.)
- Miramichi, Northumberland county, N.B. (1267.)
- St. Jérôme, Terrebonne county, Q.—Coll., J. Richardson.—Laurentian, A. (1265.)
- Portage de Ste. Geneviève, Q. (1266.)
- Harvey Hill, Leeds, Megantic county, Q.—Pre-Cambrian, B? (4792.)
- Lot 15, range X. of Bagot, Bagot county, Q.—Presented by D. Hunter. (4825.)
- Lot 23, range XV. of Hull, Ottawa county, Q.—Coll., H. P. Brumell, 1892.—Laurentian, A. (1869.)
- with molybdite.—Lot 1, range II. of Alleyn, Pontiac county, Q.—Presented by H. Henry, 1886.—Laurentian, A. (4859.)
- Lot 2, range III. of Aldfield, Pontiac county, Q.—Presented by R. H. G. Chapman, 1885.—Laurentian, A. (4916.)
- Lot 2, range VIII. of Eardley, Ottawa county, Q.—Presented by J. Davies, 1885.—Laurentian, A. (5051.)
- Lot 14, range V. of North Crosby, Leeds county, O.—Laurentian, A. (5578.)
- Lot 22, range II. of Ross, Renfrew county, O.—Coll., C. W. Wilimott, 1883.—Laurentian, A. (5590.)
- Terrace Bay, Lake Superior, district of Thunder Bay, O. (1263.)

SPECIMENS ILLUSTRATING THE DISTRIBUTION OF
ORES OF CHROMIUM, ETC.—*Continued.***Ore of Molybdenum**—*Continued.*

- Molybdenite**—Lilloet River, vicinity of New Westminster, B.C.—Presented by A. J. Hill, 1886. (5273.)
- Near the head waters of the south fork of Spuzzum Creek, Fraser River, B.C.—Presented by J. W. Mackay, 1889. (5732.)
- From copper mine, north-east side of Texada Island, B.C.—Coll., G. M. Dawson, 1885. (3761.)
- Cortes Island, north-east coast of Vancouver Island, B.C.—Coll., G. M. Dawson, 1885. (5053.)

Upright
table-case
31.—
Continued.

Ore of Sulphur.

- Iron pyrites** (pyrite).—Alfred, Prescott county, O.—Presented by Fred. Fooks, 1882.—Cambro-Silurian, D. (329.)
- Lot 19, range II. of Elizabethtown, Leeds county, O.—Laurentian, A. (2450.)
- Lot 5, range IV. of Darling, Lanark county, O.—Presented by W. H. Wylie, 1886.—Laurentian, A. (2451.)
- East half of lot 1, range IV. of Dalhousie, Lanark county, O.—Coll., H. G. Vennor.—Laurentian, A. (2469.)
- North-west shore of Hudson Bay, south of Chesterfield Inlet, district of Keewatin.—Coll., R. Bell, 1885. (4687.)
- From head of Eckstall Inlet, south of Port Essington, Skeena River, B.C. (4688.)

Ores of Manganese.

- Bog manganese.**—Near Blowdown settlement, Richmond, Carleton county, N. B.—Coll., W. Broad, 1882. (39.)
- Seigniory of Rivière Ouelle, Kamouraska county, Q.—Coll., J. Richardson.—Post Tertiary, M 3. (5195.)
- Lot 4, range V. of Madoc, Hastings county, O.—Coll., T. Macfarlane, 1865.—Post Tertiary, M 3. (5413.)
- Pyrolusite.**—Teny Cape, Hants county, N. S.—Coll., C. W. Willimott, 1883.—Carboniferous, G 1. (3674.)
- About three hundred yards east of Wasson's Bluff, Two Islands, Cumberland county, N.S.—Coll., C. W. Willimott, 1883.—Carboniferous, G. (3695.)
- About two and a half miles east of the head of Loch Lomond, Cape Breton county, N.S.—Presented by Dr. Girdwood, 1892.—Carboniferous, G 1. (4712.)
- Manganite.**—Churchill's mine, Walton, Hants county, N.S.—Coll., C. W. Willimott, 1883.—Carboniferous, G 1. (1930.)
- Teny Cape, Hants county, N.S.—Coll., C. W. Willimott, 1883.—Carboniferous, G 1. (3661.)
- Markhamville, King's county, N.B.—Coll., L. W. Bailey, 1875.—Carboniferous, G 1. (5074.)
- West Quaco, St. John county, N.B.—Coll., H. P. Brumell, 1890. (4755.)
- Grindstone Island, Magdalen Islands, Q.—Coll., J. Richardson, 1880.—Carboniferous, G 1. (5129.)
- Psilomelane.**—Gowland Mountain, Elgin, Albert county, N.B.—Presented by J. L. Harris, 1885.—Carboniferous, G 1. (5039.)

Specimens of manganese ores from the more important localities of their occurrence are shown in upright wing-case 4.

MANGANESE ORES.

- Upright
wing-case
‡.
- Pyrolusite.**—Morrison's mine, about two miles east of the head of Loch Lomond, Cape Breton county, N.S.—Presented by Hon. E. T. Mozeley.—Carboniferous, G 1. (5038.)
- From about three hundred yards east of Wasson's Bluff, Two Islands, Cumberland county, N.S.—Coll., C. W. Willimott, 1888.—Carboniferous, G 1. (5661.)
- Teny Cape, Hants county, N.S.—Coll., C. W. Willimott, 1883.—Carboniferous, G 1. (83.)
- Manganite.**—Churchill's mine, Walton, Hants county, N.S.—Coll., C. W. Willimott, 1883.—Carboniferous, G 1. (68.)
- Stephens' mine, Walton, Hants county, N.S.—Coll., C. W. Willimott, 1883.—Carboniferous, G 1. (3646.)
- Black Rock, Clifton, Colchester county, N.S.—Coll., C. W. Willimott, 1883.—Carboniferous, G 1. (74.)
- Markhamville, King's county, N.B.—Carboniferous, G 1. (67.)
- Amherst Island, Magdalen Islands, Q.—Coll., J. Richardson, 1880.—Carboniferous, G 1. (69.)
- Grindstone Island, Magdalen Islands, Q.—Coll., J. Richardson, 1880.—Carboniferous, G 1. (66.)
- Psilomelane.**—Gowland Mountain, Elgin, Albert county, N.B.—Presented by J. L. Harris, 1885.—Carboniferous, G 1. (125.)
- Manganiferous conglomerate.**—From four miles north-east of Walton village, Hants county, N.S.—Coll., C. W. Willimott, 1883.—Carboniferous, G 1. (71.)
- Bog manganese (wad).**—French River, Colchester county, N.S.—Coll., S. Barlow, 1874.—Post Tertiary, M 3. (70.)
- Amherst Island, Magdalen Islands, Q.—Coll., J. Richardson, 1880. (41.)
- Seigniorie of Rivière Ouelle, Kamouraska county, Q.—Coll., J. Richardson, 1858.—Post Tertiary, M 3. (72.)
- La Plaine, seigniorie of Cacouna, Temiscouata county, Q.—Coll., J. Richardson, 1858.—Post Tertiary, M 3. (85.)
- St. Louis Road, about four miles from Quebec city, Q.—Coll., W. E. Logan, 1852.—Post Tertiary, M 3. (87.)
- St. George, seigniorie of Aubert-Gallion, Beauce county, Q.—Post Tertiary, M 3. (88.)
- Lot 4, range V. of Madoc, Hastings county, O.—Coll., T. Macfarlane, 1865.—Post Tertiary, M 3. (128.)

Specimens illustrating the distribution of manganese ore are shown in upright table-case 31.

IRON ORES.

Magnetite or Magnetic Iron Ore.

- Magnetite.**—From half-way between Economy and Five Islands, Colchester county, N.S.—Coll., S. Barlow, 1875.—Triassic, H. (82.)
- Cleveland, Annapolis county, N.S.—Coll., T. C. Weston, 1879.—Devonian, F 1. (106.)
- Clementsvale, Annapolis county, N.S.—Coll., T. C. Weston, 1879.—Devonian, F 1. (164.)
- St. François, seigniorie of Rigaud-Vaudreuil, Beauce county, Q.—Cambrian, C 1. (131.)
- Lot 7, range V. of Leeds, Megantic county, Q.—Presented by J. A. McVety, 1886.—Pre-Cambrian, B? (184.)

IRON ORES—*Continued.***Magnetite or Magnetic Iron Ore**—*Continued.*

- Magnetite**—Lot 2, range X. of Leéds, Megantic county, Q.—Coll., W. E. Logan, 1847.—Pre-Cambrian, B? (195.)
- Lot 9, range IX. of Sutton, Brome county, Q.—Pre-Cambrian, B? (197.)
- From between lots 22 and 24, range I. of South Ham, Wolfe county, Q.—Coll., C. W. Willimott, 1882.—Cambrian, C. (3657.)
- Smith's mine, lots 20 and 21, range VI. of Ascot, Sherbrooke county, Q.—Coll., R. W. Ellis, 1886.—Pre-Cambrian, B? (5182.)
- North half of lot 3, range IV. of Grenville, Argenteuil county, Q.—Laurentian, A. (174.)
- South half of lot 3, range V. of Grenville, Argenteuil county, Q.—Coll., W. E. Logan, 1854.—Laurentian, A. (198.)
- Lot 14, range XIII. of Portland, Ottawa county, Q.—Laurentian, A. (93.)
- Forsyth's mine, lot 11, range VII. of Hull, Ottawa county, Q.—Laurentian, A. (96.)
- Lots 23 and 24, ranges V. and VI. of Wakefield, Ottawa county, Q. Pres. by J. Leduc.—Laurentian, A. (136.)
- Lot 22, range II. of Bristol, Pontiac county, Q.—Pres. by J. Bell, 1875.—Laurentian, A. (105.)
- Lot 2, range XII. of Fitzroy, Carleton county, O.—Pres. by A. Bishop, 1875.—Laurentian, A. (95.)
- Ross (opposite Portage du Fort), Renfrew county, O.—Laurentian, A. (126.)
- Bygrove mine, lot 3, range I. of South Sherbrooke, Lanark county, O.—Coll., H. G. Vennor.—Laurentian, A. (127.)
- Meyer's or Christie's Lake mine, lots 17, 18 and 19, range III. of South Sherbrooke, Lanark county, O.—Coll., H. G. Vennor.—Laurentian, A. (117.)
- Chaffey mine, lot 26, range VI. of South Crosby, Leeds county, O.—Laurentian, A. (119.)
- Lot 7, range II. of Escott, Leeds county, O.—Coll., A. Murray, 1852.—Laurentian, A. (177.)
- Thirty Island Lake, lot 6, range III. of Bedford, Frontenac county, O.—Coll., C. W. Willimott, 1883.—Laurentian, A. (133.)
- Lots 5, 6 and 7, range XII. of Barrie, Frontenac county, O.—Pres. by Allison & Platt, 1887.—Laurentian, A. (5389.)
- Dungannon, Hastings county, O.—Pres. by Hon. Billa Flint.—Laurentian, A. (121.)
- Seymour ore bed, lot 11, range V. of Madoc, Hastings county, O.—Laurentian, A. (130.)
- Lots 17, 18 and 19, range VIII. of Wollaston, Hastings county, O.—Pres. by Jenkins, Chambers & Clute, 1886.—Laurentian, A. (5220.)
- Vicinity of Big ore bed, Blairton, lot 8, range I. of Belmont, Peterborough county, O.—Laurentian, A. (86.)
- Sand-pit bed, lot 8, range I. of Belmont, Peterborough county, O.—Laurentian, A. (124.)
- Big ore bed, Blairton, lot 8, range I. of Belmont, Peterborough county, O.—Laurentian, A. (196.)
- Lot 27, range XIII. of Galway, Peterborough county, O.—Laurentian, A. (148.)

Upright
wing-case
f.—
Continued.

IRON ORES—Continued.

Magnetite or Magnetic Iron Ore—Continued.

- Upright
wing-case
4.—
Continued.
- Magnetite**—Lot 12, range XII. of Galway, Peterborough county, O.—Laurentian, A. (150.)
- Mining location Y. XII. about three miles north-west of the village of Killarney, Georgian Bay, Lake Huron, O.—Coll., R. Bell, 1875.—Huronian, B. (142.)
- Peter Bell location, Batchewahung Bay, Lake Superior, O.—Coll., R. Bell, 1860.—Huronian, B. (115.)
- McKellar's location, Atik-o-kan (Antler) River, district of Rainy River, O. Coll., R. Bell, 1888.—Archean, A. B. (5806.)
- Cherry Bluff, Kamloops Lake, B.C.—Coll., G. M. Dawson, 1877. (80.)
- East side of entrance to Harriet Harbour, Skincuttle Inlet, Queen Charlotte Islands, B.C.—Coll., G. M. Dawson, 1878. (1012.)
- From an island near the north end of the Walker group, Queen Charlotte Sound, B.C.—Coll., J. Richardson, 1872. (79.)
- From about three miles north-west of Gillies Bay, south-west side of Texada Island, B.C.—Coll., J. Richardson, 1873. (81.)
- North-east side of Texada Island, B.C.—Coll., G. M. Dawson, 1885. (606.)

Iron Sands.

- Iron sand.**—Moisie, Saguenay county, Q. (25.)
- do do (washed). (27.)
- Portneuf, seigniory of Mille Vaches, Saguenay county, Q. (29.)
- Bersimis, Saguenay county, Q. (32.)
- St. John River, Mingan, seigniory of Mingan, Saguenay county, Q. (35.)
- Natashquan, seigniory of Mingan, Saguenay county, Q. (36.)
- Batiscan, Champlain county, Q. (37.)

Ilmenite or Titanic Iron.

- Upright
wing-case
5.
- Titanic iron ore.**—Rapid River, Bay of Seven Islands, Saguenay county, Q.—Laurentian, A. (73.)
- Château Richer, Montmorency county, Q.—Laurentian, A. (76.)
- St. Irénée, seigniory of Malbaie, Charlevoix county, Q.—Laurentian, A. (163.)
- St. Urbain, at Bay St. Paul, Charlevoix county, Q.—Laurentian, A. (166.)
- Lot 9, range IX. of Sutton, Brome county, Q.—Presented by L. H. Smith.—Pre-Cambrian, B? (172.)
- Lot 7, range IX. of Sutton, Brome county, Q.—Presented by D. Farnsworth.—Pre-Cambrian, B? (176.)
- Lot 2, range III. of Brome, Brome county, Q.—Pre-Cambrian, B? (175.)

Hematite and Varieties of the same.

- Hematite.**—Wentworth grant, Pictou county, N.S.—Coll., B. J. Harrington, 1873.—Silurian, E. (16.)
- East River, Pictou county, N.S.—Coll., B. J. Harrington, 1873.—Silurian, E. (17.)
- (var. specular iron ore).—East River, Pictou county, N.S.—Coll., B. J. Harrington, 1873.—Silurian, E. (111.)

IRON ORES—*Continued.***Hematite and Varieties of the same**—*Continued.*

- Hematite**—(var. specular iron ore) with magnetite—East River, Pictou county, N.S.—Coll., B. J. Harrington, 1873.—Silurian, E. (112.)
- Nictaux River, Annapolis county, N.S.—Coll., T. C. Weston, 1879.—Devonian, F. (167.)
- From about one mile from the mouth of the Beccaguimic River, Carleton county, N.B.—Coll., R. W. Ells, 1874. (94.)
- Jacksontown, near Woodstock, Carleton county, N.B.—Coll., R. W. Ells, 1874.—Silurian, E. (103.)
- (var. specular iron ore).—West side of Pinnacle Mountain, lot 15 of St. Armand west, Missisquoi county, Q.—Coll., W. E. Logan.—Pre-Cambrian, B? (91.)
- (var. specular iron ore).—Lot 25, range IX. of Brome, Brome county, Q.—Pre-Cambrian, B? (134.)
- (var. specular iron ore)—Haycock mine, lot 28, range VI. of Templeton, Ottawa county, Q.—Laurentian, A. (140.)
- (var. specular iron ore) dressed.—Haycock mine, lot 28, range VI. of Templeton, Ottawa county, Q.—Laurentian, A. (141.)
- (var. specular iron ore).—Lac des Chats, lot 2, range I. of Bristol, Pontiac county, Q.—Coll., W. E. Logan, 1846.—Laurentian, A. (180.)
- Lot 6, con. C and D. of McNab, Renfrew county, O.—Coll., W. E. Logan, 1846.—Laurentian, A. (199.)
- Dalhousie (Cowan) mine, east half of lot I, range IV. of Dalhousie, Lanark county, O.—Coll., H. G. Vennor, 1872.—Laurentian, A. (200.)
- Lot 24, range IX. of Leeds, Leeds county, O. (89.)
- Wallbridge mine, east half of lot 12, range V. of Madoc, Hastings county, O.—Coll., C. W. Willimott, 1882.—Archean, A. B. (122.)
- Iron Island, Lake Nipissing, district of Nipissing, O.—Presented by Joseph Lemieux, 1887.—Laurentian, A. (138.)
- (var. specular iron ore).—Ryan's location, Mamainse (Namainse), Lake Superior, district of Algoma, O.—Coll., W. E. Logan, 1846.—Cambrian, C. (203.)
- (var. specular iron ore).—Pointe aux Mines, Lake Superior, district of Algoma, O.—Coll., W. E. Logan, 1846.—Cambrian, C. (152.)
- Little Gros Cap, north side of Michipicoten Harbour, Lake Superior, district of Thunder Bay, O.—Coll., R. Bell, 1876.—Huronian, B. (90.)
- Silver Lake mining location, township of McTavish, district of Thunder Bay, O.—Coll., R. Bell, 1875.—Cambrian, C. (132.)
- Black Island, Lake Winnipeg, Manitoba.—Coll., J. B. Tyrrell, 1889.—Archean, A. B. (151.)
- (var. specular iron ore).—Iron Mountain, Nicola River, near the mouth of Coldwater River, B.C.—Coll., G. M. Dawson, 1877. (1221.)

Upright
wing-case
5.—
Continued.

Limonite or Brown Hematite.

- Limonite.**—Londonderry, Colchester county, N.S.—Coll., B. J. Harrington, 1873.—Cambro-Silurian, D. (78.)
- North vein, Cumberland Brook, Acadia Mines, Londonderry, Colchester county, N.S.—Coll., A. R. C. Selwyn, 1872.—Cambro-Silurian, D. (97.)

IRON ORES—*Continued.***Limonite or Brown Hematite**—*Continued.*

- Upright
wing-case
5.—
Continued.
- Limonite**—South vein, Cumberland Brook, Acadia Mines, Londonderry, Colchester county, N.S.—Coll., A. R. C. Selwyn, 1872.—Cambro-Silurian, D. (98.)
- Cumberland Brook, Acadia Mines, Londonderry, Colchester county, N.S.—Coll., A. R. C. Selwyn, 1872.—Cambro-Silurian, D. (135.)
- Ross' Farm, Acadia Mines, Londonderry, Colchester county, N.S.—Coll., A. R. C. Selwyn, 1872.—Cambro-Silurian, D. (100.)
- Engine pit, Acadia Mines, Londonderry, Colchester county, N.S.—Coll., A. R. C. Selwyn, 1872.—Cambro-Silurian, D. (118.)
- Martin's Brook, Acadia Mines, Londonderry, Colchester county, N.S.—Coll., C. W. Willimott, 1883.—Cambro-Silurian, D. (5314.)
- Londonderry, Colchester county, N.S.—Coll., C. W. Willimott, 1883.—Cambro-Silurian, D. (3666.)
- Londonderry, Colchester county, N.S.—Coll., C. W. Willimott, 1883.—Cambro-Silurian, D. (3668.)
- Fraser-Saddler area, east branch of East River, Pictou county, N.S.—Coll., B. J. Harrington, 1873. (110.)
- Fraser-Saddler area, east branch of East River, Pictou county, N.S.—Presented by Mr. Primrose. (113.)
- Springville, East River, Pictou county, N.S.—Coll., E. Hartley, 1868. (144.)
- Brookfield, three miles east of railway station, Colchester county, N.S.—Presented by R. E. Chambers, 1889.—Devonian, F. (5728.)

Bog Iron Ore.

- Bog Iron Ore.**—Nictaux River, Annapolis county, N.S.—Coll., T. C. Weston, 1879.—Post-Tertiary, M 3. (34.)
- St. Félix, Cap de la Magdeleine, Champlain county, Q.—Post-Tertiary; M 3. (1.)
- Ste. Marguerite, Cap de la Magdeleine, Champlain county, Q.—Post-Tertiary, M 3. (26.)
- Bois de Ail, near Portneuf, Portneuf county, Q.—Post-Tertiary, M 3. (30.)
- Second concession of Green Island, Temiscouata county, Q.—Post-Tertiary, M 3. (5.)
- St. Vallier, Bellechasse county, Q.—Post-Tertiary, M 3. (8.)
- From between Rivière du Sud and Rivière Bras, Bellechasse county, Q.—Post-Tertiary, M 3. (15.)
- Lot 26, range IV. of St. Etienne, St. Maurice county, Q.—Post-Tertiary, M 3. (11.)
- Lots 4, 5 and 6, range III. of Pointe du Lac, St. Maurice county, Q.—Post-Tertiary, M 3. (31.)
- Ste. Elizabeth, seigniorie of Lanoraie, Joliette county, Q.—Post-Tertiary, M 3. (4.)
- Lot 7, range II. of Kildare, Joliette county, Q.—Post-Tertiary, M 3. (6.)
- Ste. Rose (Rosalie), seigniorie of Lanoraie, Joliette county, Q.—Post-Tertiary, M 3. (13.)
- Stanbridge, Missisquoi county, Q.—Post-Tertiary, M 3. (3.)
- St. Jérôme, Terrebonne county, Q.—Post-Tertiary, M 3. (28.)

IRON ORES—*Continued.***Bog Iron Ore**—*Continued.*

- Bog Iron Ore**—Rivière du Chêne, county of Two Mountains, Q.—Post-Tertiary, M 3. (14.) Upright wing-case 5.—*Continued.*
- Côte St. Charles, seigniory of Vaudreuil, Vaudreuil county, Q.—Post-Tertiary, M 3. (7.)
- Ste. Angélique, seigniory of Vaudreuil, Vaudreuil county, Q.—Post-Tertiary, M 3. (20.)
- St. François, seigniory of Rigaud-Vaudreuil, Beauce county, Q.—Presented by C. Delery.—Post-Tertiary, M 3. (21.)
- Lot 21, range VIII. of Eardley, Ottawa county, Q.—Coll., W. E. Logan, 1846.—Post-Tertiary, M 3. (2.)
- Lot 30, range II. of Leslie, Pontiac county, Q.—Presented by R. H. G. Chapman, 1885.—Post-Tertiary, M 3. (5122.)
- North Elmsley, Lanark county, O.—Post-Tertiary, M 3. (12.)
- Lot 21, range VII. of Bastard, Leeds county, O.—Post-Tertiary, M 3. (10.)
- Thamesville, Campden, Kent county, O.—Post-Tertiary, M 3. (9.)
- Vicinity of Brandon Hills, Manitoba.—Presented by J. Holmes, 1882. (38.)

Siderite or Spathic Iron, and Varieties of the same.

- Spathic iron ore** (siderite).—Mining locations 22, 23, 24, 25 and 26, township of McIntyre, district of Thunder Bay, O.—Cambrian, C. (5758.)
- Clay iron-stone.**—From near Tar Point, township of Douglas, Gaspé county, Q.—Coll., R. Bell, 1862.—Devonian, F. (75.)
- North Saskatchewan River, near Edmonton, district of Alberta, N.W.T.—Coll., R. W. Ells, 1875.—Cretaceo-Tertiary, K-L. (Laramie). (77.)
- Dirt Hills, about one hundred miles south-west of Qu'Appelle, district of Assiniboia, N.W.T.—Coll., R. Bell, 1873.—Tertiary, L. (114.)

SPECIMENS ILLUSTRATING THE DISTRIBUTION OF IRON ORES.

[These are arranged in a combined systematic and geographic manner. As facilitating a ready reference to the ore from any particular province, the specimens from the different provinces have been placed upon variously coloured card-board covering the bottom of the tray. The Maritime provinces being represented by greenish-blue, the province of Quebec by purplish-brown, that of Ontario by dark bluish-grey, the province of Manitoba and the North-west Territory by olive-green and the province of British Columbia by salmon-red.]

Magnetite or Magnetic Iron Ore.

- Magnetite.**—Long Island, Cape Breton county, N.S.—Cambrian, C. (4674.) Table-case 42.
- Mount Hanly, Annapolis county, N.S.—Coll., Prof. How, 1860.—Triassic, H. (104.)
- North Mountain, two miles from Middleton, Annapolis county, N. S.—Coll., Prof. How, 1860.—Triassic, H. (1945.)

SPECIMENS ILLUSTRATING THE DISTRIBUTION OF
IRON ORES—Continued.**Magnetite or Magnetic Iron Ore**—Continued.

Table-case 42.— Continued.	Magnetite —Nictaux River, Annapolis county, N.S.—Coll., T. C. Weston, 1879. —Devonian, F. (1947.)
—	Clementsvale, Annapolis county, N.S.—Coll., T. C. Weston, 1879. —Devonian, F. (2100.)
—	(fossiliferous).—Clementsvale, Annapolis county, N.S.—Coll., T. C. Weston, 1879.—Devonian, F. (2101.)
—	“Potter” bed, Clementsport, Annapolis county, N.S.—Devonian, F. (5807.)
—	“Milner” bed, Clementsport, Annapolis county, N.S.—Devonian, F. (5808.)
—	Bear River, Annapolis county, N.S.—Triassic, H. (1465.)
—	Two miles west of Digby, Digby county, N.S.—Presented by R. W. Bulkeley, 1884.—Triassic, H. (4940.)
—	From the head of Mill Stream, about fifteen miles from Bathurst and seven miles from the Intercolonial Railway, Gloucester county, N.B.—Cambro-Silurian, D. (362.)
—	Deer Island, Passamaquoddy Bay, Charlotte county, N.B.—Coll., R. W. Ells, 1874.—Pre-Cambrian, A. B. (1944.)
—	Pentecost River, Saguenay county, Q.—Coll., J. Richardson, 1864. Laurentian, A. (2102.)
—	Two and a half miles south of St. Jérôme, Terrebonne county, Q.—Coll., F. D. Adams, 1882.—Laurentian, A. (3651.)
—	Lot 26, range VII. of Bolton, Brome county, Q.—Coll., W. E. Logan, 1847.—Pre-Cambrian, B? (1974.)
—	Lot 2, range XIV. of Bolton, Brome county, Q.—Pre-Cambrian, B? (1979.)
—	Belvidere (Clark’s) mine, lot 8, range IX. of Ascot, Sherbrooke county, Q.—Coll., R. W. Ells, 1885.—Pre-Cambrian, B? (5125.)
—	Inverness, Megantic county, Q.—Presented by E. Major, Montreal, 1872. (1958.)
—	Lot 7, range V. of Leeds, Megantic county, Q.—Presented by J. McVety, 1886.—Pre-Cambrian, B? (1731.)
—	From the vicinity of Kinnear’s Mills, Leeds, Megantic county, Q.—Pre-Cambrian, B? (5560.)
—	Forsyth mine, lot 11, range VII. of Hull, Ottawa county, Q.—Laurentian, A. (1906.)
—	Baldwin mine, lot 13, range VI. of Hull, Ottawa county, Q.—Laurentian, A. (1908.)
—	Lot 12, range V. of Wright, Ottawa county, Q.—Laurentian, A. (2107.)
—	Lots 39 and 49, range II. of Cameron, Ottawa county, Q.—Coll., H. G. Vennor, 1876.—Laurentian, A. (2109.)
—	Mulgrave, Ottawa county, Q.—Presented by W. A. Allan, 1887.—Laurentian, A. (5502.)
—	Bristol mine, lot 22, range II. of Bristol, Pontiac county, Q.—Coll., B. J. Harrington, 1873.—Laurentian, A. (1911.)
—	Lot 12, range I. of Litchfield, Pontiac county, Q.—Presented by H. K. Egan, 1887.—Laurentian, A. (5457.)
—	Eighth portage of the Rivière Quinze, Pontiac county, Q.—Coll., W. McOuat, 1872.—Laurentian, A. (1956.)
—	North half of lot 1, range I. of Torbolton, Carleton county, O.—Laurentian, A. (3640.)

SPECIMENS ILLUSTRATING THE DISTRIBUTION OF
IRON ORES—*Continued.***Magnetite or Magnetic Iron Ore**—*Continued.*

Magnetite —Lot 26, range II. of Huntley, Carleton county, O.—Laurentian, A. (2111.)	Table-case 42.— <i>Continued.</i>
— Hill Island, one of the Thousand Islands, River St. Lawrence, Leeds county, O.—Laurentian, A. (5580.)	
— Lot 12, range II. of North Crosby, Leeds county, O.—Coll., H. G. Vennor.—Laurentian, A. (5730.)	
— Lot 9, range VII. of North Burgess, Lanark county, O.—Coll., H. G. Vennor.—Laurentian, A. (139.)	
— Bulls pit, Wilbur mine, lot 4, range XII. of Lavant, Lanark county, O.—Coll., E. Coste, 1884.—Laurentian, A. (5622.)	
— No. 2 shaft, main vein, east part, Wilbur mine, lot 4, range XII. of Lavant, Lanark county, O.—Coll., E. Coste, 1884.—Laurentian, A. (5623.)	
— Caldwell mine, lot 13, range III. of Lavant, Lanark county, O.—Coll., E. Coste, 1884.—Laurentian, A. (5625.)	
— Fournier mine, lot 14, range I. of South Sherbrooke, Lanark county, O.—Coll., B. J. Harrington, 1873.—Laurentian, A. (1966.)	
— Lot 24, range XII. of Rolph, Renfrew county, O.—Laurentian, A. (5631.)	
— Lot 25, range XIII. of Rolph, Renfrew county, O.—Laurentian, A. (5632.)	
— Norway Lake, lot 21, range X. of Bagot, Renfrew county, O.—Coll., E. Coste, 1884.—Laurentian, A. (5617.)	
— Calabogie mine, lot 12, range VI. of Bagot, Renfrew county, O.—Coll., E. Coste, 1884.—Laurentian, A. (5619.)	
— Lot 13, range VI. of Bagot, Renfrew county, O.—Laurentian, A. (2110.)	
— Wilson mine, lot 12, range VIII. of Bagot, Renfrew county, O.—Coll., E. Coste, 1884.—Laurentian, A. (5620.)	
— Leronde mine, lot 23, range XI. of Bagot, Renfrew county, O.—Coll., E. Coste, 1884.—Laurentian, A. (5630.)	
— Williams mine, lot 21, range XII. of Bagot, Renfrew county, O.—Coll., E. Coste, 1884.—Laurentian, A. (5616.)	
— Lot 24, range II. of Stafford, Renfrew county, O.—Presented by Rev. Fr. Marion, 1889.—Laurentian, A. (3685.)	
— Merry mine, lot 4, range IX. of Palmerston, Frontenac county, O.—Coll., E. Coste, 1884.—Laurentian, A. (5627.)	
— Robertsville mine, lot 4, range IX. of Palmerston, Frontenac county, O.—Coll., E. Coste, 1884.—Laurentian, A. (5628.)	
— Lot 28, range XI. of Palmerston, Frontenac county, O.—Presented by Messrs. Wylie & Hall, 1884.—Laurentian, A. (3655.)	
— Lot 17, range XI. of Olden, Frontenac county, O.—Laurentian, A. (3652.)	
— Howse mine, lot 4, range I. of Bedford, Frontenac county, O.—Coll., B. J. Harrington, 1873.—Laurentian A. (1968.)	Table-case 43.
— Eagle Lake, lot 29, range I. of Bedford, Frontenac county, O.—Coll., B. J. Harrington, 1873.—Laurentian, A. (1948.)	
— Glendower mine, lot 6, range II. of Bedford, Frontenac county, O.—Coll., E. Coste, 1884.—Laurentian, A. (5606.)	
— Thirty Island Lake, lot 6, range III. of Bedford, Frontenac county, O.—Coll., B. J. Harrington, 1873.—Laurentian, A. (1931.)	
— Lot 28, range IV. of Bedford, Frontenac county, O.—Presented by W. Davies, 1887.—Laurentian, A. (5507.)	

SPECIMENS ILLUSTRATING THE DISTRIBUTION OF
IRON ORES—*Continued.***Magnetite or Magnetic Iron Ore**—*Continued.*

Table-case 43.— <i>Continued.</i>	Magnetite	—Lots 5, 6 and 7, range XII. of Barrie, Frontenac county, O.—Presented by Messrs. Allison & Platt, 1887.—Laurentian, A. (443.)
	—	Dufferin mine, lot 18, range I. of Madoc, Hastings county, O.—Coll., C. W. Willimott, 1885.—Laurentian, A. (5232.)
	—	Hobson mine, lot 19, range I. of Madoc, Hastings county, O.—Coll., E. Coste, 1884.—Laurentian, A. (5585.)
	—	Dominion mine, lot 2, range II. of Madoc, Hastings county, O.—Coll., E. Coste, 1884.—Laurentian, A. (5588.)
	—	Seymour mine, lot 11, range V. of Madoc, Hastings county, O.—Coll., B. J. Harrington, 1873.—Laurentian, A. (1921.)
	—	Gillen mine, lot 7, range VI. of Madoc, Hastings county, O.—Presented by John Stewart, 1882.—Laurentian, A. (2103.)
	—	Cameron mine, lot 9, range VI. of Madoc, Hastings county, O.—Coll., E. Coste, 1884.—Laurentian, A. (5591.)
	—	Forty-nine acre mine, lot 10, range VI. of Madoc, Hastings county, O.—Coll., E. Coste, 1884.—Laurentian, A. (5587.)
	—	Sexsmith mine, lot 8, range VII. of Madoc, Hastings county, O.—Presented by John Stewart, 1882.—Laurentian, A. (2105.)
	—	St. Charles mine, lot 19, range XII. of Tudor, Hastings county, O.—Coll., E. Coste, 1884.—Laurentian, A. (5609.)
	—	Becker mine, lot 18, range XVIII. of Tudor, Hastings county, O.—Coll., E. Coste, 1884.—Laurentian, A. (5610.)
	—	Emily mine, lot 7, range XIX. of Tudor, Hastings county, O.—Coll., E. Coste, 1884.—Laurentian, A. (5607.)
	—	Louise or Orton mine, lot 57, west half of Free Grants, Hastings Road, Tudor, Hastings county, O.—Coll., E. Coste, 1884.—Laurentian, A. (5615.)
	—	Killey's property, lot 13, range II. of Marmora, Hastings county, O.—Coll., E. Coste, 1884.—Laurentian, A. (5603.)
	—	Kean ore bed, north side of Crow Lake, lot 12, range III. of Marmora, Hastings county, O.—Coll., H. G. Vennor, 1867.—Laurentian, A. (116.)
	—	Marsh ore bed, lot 9, range VI. of Marmora, Hastings county, O.—Coll., E. Coste, 1884.—Laurentian, A. (5718.)
	—	McCallum ore bed, lot 9, range VIII. of Marmora, Hastings county, O.—Coll., H. G. Vennor, 1867.—Laurentian, A. (120.)
	—	Nihil mine, lot 16, range X. of Marmora, Hastings county, O.—Coll., E. Coste, 1884.—Laurentian, A. (5601.)
	—	Lot 14, range I. of Wollaston, Hastings county, O.—Messrs. Chambers and McLeod, 1885.—Laurentian, A. (5197.)
	—	Lot 15, range I. of Wollaston, Hastings county, O.—Messrs. Jenkins and Chambers, 1885.—Laurentian, A. (5199.)
	—	Lot 15, range II. of Wollaston, Hastings county, O.—Messrs. Jenkins, Chambers, Brown and Clute, 1885.—Laurentian, A. (5198.)
	—	Lot 16, range II. of Wollaston, Hastings county, O.—Messrs. Jenkins, Chambers, Brown and Clute, 1885.—Laurentian, A. (5202.)
	—	Lot 14, range IV. of Wollaston, Hastings county, O.—Messrs. Jenkins, Chambers, Brown and Clute, 1885.—Laurentian, A. (5201.)
	—	Coe Hill mine, lot 16, range VIII. of Wollaston, Hastings county, O.—Coll., E. Coste, 1884.—Laurentian, A. (5604.)

SPECIMENS ILLUSTRATING THE DISTRIBUTION OF
IRON ORES—*Continued.***Magnetite or Magnetic Iron Ore**—*Continued.*

- Magnetite**—Lots 17 and 18, range VIII. of Wollaston, Hastings county, O.—Messrs. Jenkins, Chambers and Clute, 1885.—Laurentian, A. (5203.)
- Lot 9, range XV. of Wollaston, Hastings county, O.—Messrs. Jenkins and Chambers, 1885.—Laurentian, A. (5200.)
- Lot 10, range XV. of Wollaston, Hastings county, O.—Messrs. Jenkins, Chambers and Mallett, 1885.—Laurentian, A. (5196.)
- Big ore bed, Blairton, lot 8, range I. of Belmont, Peterborough county, O.—Coll., B. J. Harrington, 1873.—Laurentian, A. (1914.)
- Lot 19, range I. of Belmont, Peterborough county, O.—Coll., E. Coste, 1884.—Laurentian, A. (5613.)
- Lot 22, range XII. of Galway, Peterborough county, O.—Laurentian, A. (149.)
- Swamp Lake, lot 23, range XII. of Galway, Peterborough county, O.—Coll., E. Coste, 1885.—Laurentian, A. (5612.)
- Paxton & Jones mine, lot 5, range V. of Lutterworth, Haliburton county, O.—Coll., E. Coste, 1884.—Laurentian, A. (5626.)
- Lot 20, range I. of Snowdon, Haliburton county, O.—Coll., B. J. Harrington, 1873.—Laurentian, A. (1951.)
- From the vicinity of Little Gull Lake, district of Thunder Bay, O.—Coll., E. D. Ingall, 1886.—Cambrian, C 1. (5391.)
- McKinley's location, north shore of Gun-flint Lake, district of Thunder Bay, O.—Coll., A. C. Lawson, 1887.—Cambrian, C 1. (5559.)
- Greenwater Lake, district of Thunder Bay, O.—Coll., W. McInnes, 1891.—Archean, A. B. (5396.)
- Seine River (fifty miles down from Savanne on the Canadian Pacific Railway), district of Rainy River, O.—Presented by T. McKellar, 1885.—Archean, A. B. (5048.)
- "Lake where the river bends," Big Turtle River, district of Rainy River, O.—Coll., W. H. C. Smith, 1891.—Archean, A. B. (2582.)
- McKellar Brothers' location, Atik-o-kan (Antler) River, district of Rainy River, O.—Coll., R. Bell, 1888.—Archean, A. B. (5805.)
- Magnetite Island, Narrows of Knee Lake, district of Keewatin, O.—Coll., R. Bell, 1878.—Huronian, B. (2112.)
- Pine Creek, Waterton River (fifteen miles from the fork of North Fork and Waterton River), district of Alberta, N.W.T. (3712.)
- Kootanie River (between Kootanie Lake and Columbia River, at the ferry below the lower fall), B.C.—Coll., G. M. Dawson, 1889. (24.)
- Ten miles from Hope, Fraser River, B.C.—Coll., J. Richardson, 1873. (1953.)
- Joseph Watkinson's farm, left bank of the Fraser River, twenty-three miles above Lytton, B.C.—Coll., G. M. Dawson, 1888. (5775.)
- Half a mile below Nicoamen, Thompson River, B.C.—Coll., J. Richardson, 1873. (1954.)
- Knight Inlet, B.C.—Coll., J. Richardson, 1873. (1955.)
- North side of Rivers Inlet (about twenty-five miles up), B.C.—Coll., G. M. Dawson, 1888. (5735.)

Table-case
43.—
Continued.

SPECIMENS ILLUSTRATING THE DISTRIBUTION OF
IRON ORES—*Continued.***Magnetite or Magnetic Iron Ore**—*Continued.*

Table-case 44.	Magnetite. —North-east side of Texada Island, B.C.—Coll., G. M. Dawson, 1885. (469.)
—	From a mine about three miles north-west of Gillies Bay, south-west side of Texada Island, B.C.—Coll., J. Richardson, 1873. (1946.)
—	Sooke iron mine, Strait of Juan de Fuca, Vancouver Island, B.C. (5282.)
—	From an island near the north end of the Walker Group, in Queen Charlotte Sound, B.C.—Coll., J. Richardson, 1872. (1952.)
	Magnetic iron sand. —Cape Commerell, north end of Vancouver Island, B.C.— Coll., G. M. Dawson, 1885. (5386.)

Hematite, and Varieties of the same.

Hematite.	Gallas Point, east side of Hillsborough Bay, Prince Edward Island. —Coll., A. R. C. Selwyn, 1874.—Carboniferous, G 4. (2024.)
—	Indian Reserve, Whykokomagh, Inverness county, N.S.—Coll., C. Robb, 1873.—Pre-Cambrian, A. B. (2007.)
—	Breac Brook, East Bay, Cape Breton county, N.S.—Coll., H. Fletcher, 1879.—Contact of Carboniferous, G, and Pre-Cambrian, A. B. (2017.)
—	Near Big Pond, East Bay, Cape Breton county, N.S.—Contact of Carboniferous, G, and Pre-Cambrian, A. B. (6529.)
—	Loran Beach, Louisbourg, Cape Breton county, N.S.—Coll., A. R. C. Selwyn, 1874.—(Loose). (2010.)
—	Archie McVicar's mine, near the head of Loch Lomond, Cape Breton county, N.S.—Coll., H. Fletcher, 1881.—Carboniferous, G 1. (2124.)
—	(var. micaceous iron ore).—Robinson Cove, near St. Peters, Richmond county, N.S.—Devonian, F. (5712.)
—	(var. micaceous iron ore).—Borrowdale, Salmon River, Richmond county, N.S.—Devonian, F. (3664.)
—	(var. micaceous iron ore).—Gairloch Mountain, Middle River, Victoria county, N.S.—Coll., H. Fletcher, 1879.—Contact of Carboniferous, G, and Pre-Cambrian, A. B. (2126.)
—	(var. micaceous iron ore).—Cameron's Mill, Roman Valley, Guysborough county, N.S.—Coll., H. Fletcher, 1884.—Devonian, F. (3662.)
—	(var. specular iron ore).—Crane Iron Company's mine, Salmon River, Guysborough county, N.S.—Coll., H. Fletcher, 1883.—Devonian, F. (3663.)
—	(var. micaceous iron ore).—Near Stewart Pond, Guysborough county, N.S.—Coll., H. Fletcher, 1879.—Devonian, F. (2125.)
—	(var. specular iron ore).—Chedabucto Bay, Guysborough county, N.S.—Coll., H. Fletcher, 1878.—Devonian, F. (1990.)
—	Polson's Lake, Antigonish county, N.S.—Coll., A. R. C. Selwyn, 1874.—Devonian, F. (2020.)
—	Nictaux River, Annapolis county, N.S.—Coll., T. C. Weston, 1879. Devonian, F. (2127.)
—	Teny Cape, Hants county, N.S.—Coll., C. W. Willimott, 1883.—Carboniferous, G 1. (3667.)
—	Area 45 (Blanchards), Pictou county, N.S.—Coll., B. J. Harrington, 1873.—Silurian, E. (2003.)

SPECIMENS ILLUSTRATING THE DISTRIBUTION OF
IRON ORES—*Continued.***Hematite and Varieties of the same**—*Continued.*

- Hematite**—Area 100, East River, Pictou county, N.S.—Coll., B. J. Harrington, 1873.—Silurian, E. (2005.)
- (var. specular iron ore).—Area 100, East River, Pictou county, N.S.—Coll., B. J. Harrington, 1873.—Silurian, E. (1995.)
- Area 108, Pictou county, N.S.—Coll., B. J. Harrington, 1873.—Silurian, E. (2014.)
- Peter Totten lot, Acadia Mines, Londonderry, Colchester county, N.S.—Coll., A. R. C. Selwyn, 1872.—Cambro-Silurian, D. (102.)
- (var. specular iron ore).—Cook's Brook, Acadia Mines, Londonderry, Colchester county, N.S.—Coll., B. J. Harrington, 1873.—Cambro-Silurian, D. (1996.)
- Iron Ore Hill, near Jacksonville, Carleton county, N.B.—Coll., R. W. Ells, 1874.—Silurian, E. (2025.)
- Carnie's Mine, Moody's Hill, near Jacksonville, Carleton county, N.B.—Coll., R. W. Ells, 1874.—Silurian, E. (2026.)
- Stevens' Mine, Jacksontown, near Woodstock, Carleton county, N.B.—Coll., R. W. Ells, 1874.—Silurian, E. (2027.)
- Jarvis Easty's lot, Flagstaff Hill, Carleton county, N.B.—Coll., R. W. Ells, 1874.—Silurian, E. (2028.)
- About one mile from the mouth of the Beccaguinic River, Carleton county, N.B.—Coll., R. W. Ells, 1874.—Silurian, E. (2029.)
- Amherst Island, Magdalen Islands, Q.—Coll., J. Richardson, 1880.—Carboniferous, G 1. (2128.)
- (var. specular iron ore).—Lot 17, range XIII. of Leeds, Megantic county, Q.—Pre-Cambrian, B? (1999.)
- (var. micaceous iron ore).—Lot 45, St. Armand East, Missisquoi county, Q.—Pre-Cambrian, B? (92.)
- (var. specular iron ore).—West side of Pinnacle Mountain, St. Armand West, Missisquoi county, Q.—Pre-Cambrian, B? (1994.)
- (var. specular iron ore).—Lot 6, range IX. of Sutton, Brome county, Q.—Pre-Cambrian, B? (2006.)
- (var. specular iron ore).—Lot 22, range III. of Shefford, Shefford county, Q.—Presented by J. A. Leatch, 1886.—Pre-Cambrian, B? (5326.)
- (var. specular iron ore).—Haycock mine, lot 28, range VI. of Templeton, Ottawa county, Q.—Coll., B. J. Harrington, 1873.—Laurentian, A. (1993.)
- (var. specular iron ore).—Lac des Chats, lot 2, range I. of Bristol, Pontiac county, Q.—Coll., W. E. Logan, 1846.—Laurentian, A. (1997.)
- Lot 27, range VIII. of Clarendon, Pontiac county, Q.—Presented by J. McTiernan, 1888.—Laurentian, A. (5561.)
- East half of lot 14, range XI. of Beckwith, Lanark county, O.—Coll., A. R. C. Selwyn, 1887.—Cambrian, C 2. (5335.)
- Lot 30, range VI. of North Elmsley, Lanark county, O.—Presented by A. B. Savage, 1872.—Laurentian, A. (2009.)
- Dalhousie or Cowan mine, east half of lot 1, range IV. of Dalhousie, Lanark county, O.—Coll., H. G. Vennor, 1872.—Laurentian, A. (2019.)
- Lot 23, range XI. of Darling, Lanark county, O.—Laurentian, A. (5558.)

Table-case
44.—
Continued.

SPECIMENS ILLUSTRATING THE DISTRIBUTION OF
IRON ORES—*Continued.***Hematite, and Varieties of the same**—*Continued.*

Table-case 44.— <i>Continued.</i>	Hematite —	Lot 6, concession C and D of McNab, Renfrew county, O.—Coll., W. E. Logan, 1846.—Laurentian, A. (2031.)
	—	Lot 24, range X. of Bastard, Leeds county, O.—Cambrian, C 1. (2032.)
	—	Lot 19, range IX. of South Crosby, Leeds county, O.—Presented by M. Brown, 1886.—Laurentian, A. (5283.)
	—	Lot 24, range IX. of Leeds, Leeds county, O. (2030.)
	—	Lots 7 and 8, range III. of South Canoto, Frontenac county, O.—Laurentian, A. (5581.)
Table-case 45.	—	West half of lot 28, range V. of Oso, Frontenac county, O.—Presented by W. A. Allan, 1889.—Laurentian, A. (5722.)
	—	Wallbridge mine, east half of lot 12, range V. of Madoc, Hastings county, O.—Archean, A. B. (2129.)
	—	(var. micaceous iron ore).—St. Charles mine, lot 4, range VI. of Madoc, Hastings county, O.—Coll., E. Coste, 1884.—Laurentian, A. (5596.)
	—	St. Charles mine, lot 4, range VI. of Madoc, Hastings county, O.—Coll., E. Coste, 1884.—Laurentian, A. (5597.)
	—	Lot 12, range V. of Madoc, Hastings county, O.—Coll., E. Coste, 1884.—Laurentian, A. (5589.)
	—	Lot 14, range IX. of Marmora, Hastings county, O.—Coll., E. Coste, 1884.—Laurentian, A. (5600.)
	—	Bentliffe mine, lot 13, range X. of Marmora, Hastings county, O.—Coll., E. Coste, 1884.—Laurentian, A. (5598.)
	—	Lot 7, range V. of Belmont, Peterborough county, O.—Laurentian, A. (260.)
	—	Iron Island, Lake Nipissing, O.—Laurentian, A. (2022.)
	—	Talon Chute, township of Olrig, district of Nipissing, O.—Coll., H. P. Brummell, 1887.—Laurentian, A. (5780.)
	—	Stobie mine, V. 8, township of Coffin additional, district of Algoma, O.—Coll., A. R. C. Selwyn, 1888.—Huronian, B. (5633.)
	—	(var. micaceous iron ore).—Stobie mine, V. 8, township of Coffin additional, district of Algoma, O.—Coll., A. R. C. Selwyn, 1888.—Huronian, B. (5634.)
	—	(var. specular iron ore).—Wallace mining location, near Whitefish River, district of Algoma, O.—Coll., A. Murray, 1847.—Huronian, B. (1998.)
	—	Alvira Bay, Lake Superior, O.—Coll., W. E. Logan, 1846. (3647.)
	—	Little Gros Cap, north side of Michipicoten Harbour, Lake Superior, O.—Coll., R. Bell, 1876.—Huronian, B. (2033.)
	—	(var. specular iron ore).—Cape Gargantua, Lake Superior, O.—Coll., W. E. Logan, 1846. (2008.)
	—	Eastern part of Silver Lake mining location, township of McTavish, district of Thunder Bay, O.—Coll., R. Bell, 1875.—Cambrian, C 1. (2076.)
	—	Location R 280, about three-quarters of a mile west of Loon Lake, district of Thunder Bay, O.—Coll., A. C. Lawson, 1887. (5563.)
	—	Black Island, Lake Winnipeg, Manitoba.—Presented by W. Murdoch, 1882.—Archean, A. B. (3653.)
	—	(var. specular iron ore).—At the junction of Nicola and Coldwater Rivers, B.C.—Presented by De Wolf & Monro, Vancouver, B.C. (3749.)

SPECIMENS ILLUSTRATING THE DISTRIBUTION OF
IRON ORES—*Continued.***Limonite or Brown Hematite.**

- Limonite.**—East branch of the East River, Pictou county, N.S.—Coll., B. J. Harrington, 1873. (2051.) Table-case
45.—
Continued.
- Area 46 (Fraser Saddler), East River, Pictou county, N.S.—Coll.; B. J. Harrington, 1873. (2052.)
- Area 105 (Cullen), near the west branch of the East River, Pictou county, N.S.—Coll., B. J. Harrington, 1873. (2156.)
- Fraser Saddler area, East River, Pictou county, N.S.—Coll., B. J. Harrington, 1873. (2061.)
- Brookfield, Colchester county, N.S.—Presented by R. E. Chambers, 1889.—Devonian, F. (5729.)
- Between Martin's and Cumberland Brooks, Acadia Mines, Londonderry, Colchester county, N.S.—Coll., A. R. C. Selwyn, 1872.—Cambro-Silurian, D. (2047.)
- Martin's Brook, Acadia Mines, Londonderry, Colchester county, N.S.—Cambro-Silurian, D. (2054.)
- Martin's Brook, Acadia Mines, Londonderry, Colchester county, N.S.—Coll., B. J. Harrington, 1873.—Cambro-Silurian, D. (2132.)
- Cumberland Brook, Acadia Mines, Londonderry, Colchester county, N.S.—Coll., A. R. C. Selwyn, 1872.—Cambro-Silurian, D. (2050.)
- Acadia Mines, Londonderry, Colchester county, N.S.—Cambro-Silurian, D. (1366.)
- Probert level, Acadia Mines, Londonderry, Colchester county, N.S.—Coll., A. R. C. Selwyn, 1872.—Cambro-Silurian, D. (2131.)
- Acadia Mines, Londonderry, Colchester county, N.S.—Coll., C. W. Willimott, 1883.—Cambro-Silurian, D. (4643.)
- Cape Enragé, Albert county, N.B.—Coll., R. W. Ells, 1877.—Carboniferous, G 1. (2130.)

Bog Iron Ore.

- Bog Iron Ore.**—From near the Indian Reserve, Whykokomagh, Inverness county, N.S.—Coll., C. Robb, 1873.—Post-Tertiary, M 3. (2133.)
- Concession 2 of Green Island, Temiscouata county, Q.—Post-Tertiary, M 3. (2070.)
- St. Félix, Cap de la Magdeleine, Champlain county, Q.—Post-Tertiary, M 3. (2067.)
- St. Maurice Forges, vicinity of Three Rivers, St. Maurice county, Q.—Coll., B. J. Harrington, 1874.—Post-Tertiary, M 3 (2058.)
- Lot 26, range IV. of St. Etienne, St. Maurice county, Q.—Post-Tertiary, M 3. (2068.)
- Ste. Rose (Rosalie), Lanoraie, Joliette county, Q.—Post-Tertiary, M 3. (2078.)
- Lot 7, range I. of Kildare, Joliette county, Q.—Post-Tertiary, M 3 (2062.)
- Lot 8, range XII. of Simpson, Drummond county, Q.—Post-Tertiary M 3. (2074.)
- St. Vallier, Bellechasse county, Q.—Post-Tertiary, M 3. (2077.)
- L'Acadie, St. John's county, Q.—Post-Tertiary, M 3. (2134.)

SPECIMENS ILLUSTRATING THE DISTRIBUTION OF
IRON ORES—*Continued.***Bog Iron Ore**—*Continued.*

Table-case 45.— <i>Continued.</i>	<p>Bog Iron Ore. Lot 12, range IV. of Ireland, Megantic county, Q.—Post-Tertiary, M 3. (2064.)</p> <p>— Stanbridge, Missisquoi county, Q.—Post-Tertiary, M 3. (2066.)</p> <p>— St. François, seigniory of Rigaud-Vaudreuil, Beauce county, Q.—Post-Tertiary, M 3. (2075.)</p> <p>— Lake Aylmer Road, lot 22, Wolfe county, Q.—Post-Tertiary, M 3. (4670.)</p> <p>— Lot 15, range IV. of Ascot, Sherbrooke county, Q.—Post-Tertiary, M 3. (3669.)</p> <p>— (manganiferous).—Ste. Angélique, Vaudreuil county, Q.—Post-Tertiary, M 3. (2063.)</p> <p>— Lot 11 of Côte St. Charles, seigniory of Vaudreuil, Vaudreuil county, Q.—Post-Tertiary, M 3. (2073.)</p>
Table-case 46.	<p>— Upper Rocky Point, lot 21, range VIII. of Eardley, Ottawa county, Q.—Coll., W. E. Logan, 1846.—Post-Tertiary, M 3. (2071.)</p> <p>— Lot 21, range VII. of Bastard, Leeds county, O.—Post-Tertiary, M 3. (2059.)</p> <p>— Thamesville, Campden, Kent county, O.—Post-Tertiary, M 3. (2072.)</p> <p>— Twenty-two miles north-west of Fort Mattachewan, Montreal River, district of Nipissing, O.—Presented by E. B. Haycock, 1888.—Post-Tertiary, M 3. (5714.)</p> <p>— Brandon Hills, Manitoba.—Presented by J. Holmes, 1881. (3665.)</p>

Siderite or Spathic Iron, and Varieties of the same.

- Siderite.**—Sutherland's River, Pictou county, N.S.—Coll., E. Hartley, 1869.—Carboniferous, G. 2. (2086.)
- New Mines.—Acadia Mines, Londonderry, Colchester county, N.S.—Coll., A. E. Barlow, 1884.—Cambro-Silurian, D. (2135.)
- (partially altered to hematite).—Peter Totten lot, Acadia Mines, Londonderry, Colchester county, N.S.—Coll., B. J. Harrington, 1873.—Cambro-Silurian, D. (2012.)
- (altered to hematite).—Peter Totten lot, Acadia Mines, Londonderry, Colchester county, N.S.—Coll., B. J. Harrington, 1873.—Cambro-Silurian, D. (2099.)
- Lots 22 to 26, township of McIntyre, district of Thunder Bay, O.—Cambrian, C 1. (5759.)
- First Fall, Little Whale River, east coast of Hudson Bay.—Coll., R. Bell, 1877.—Cambrian, C. (4639.)
- Flint Island, east coast of Hudson Bay.—Coll., R. Bell, 1877.—Cambrian, C. (4728.)
- Clay iron-stone.**—Springhill, Cumberland county, N.S.—Coll., S. Barlow, 1873.—Carboniferous, G 3. (2089.)
- South Joggins, Cumberland county, N.S.—Coll., T. C. Weston, 1882.—Carboniferous, G. (2085.)
- East River, Pictou county, N.S.—Coll., B. J. Harrington, 1873.—Carboniferous, G. (2092.)
- Souris City, Souris River, Manitoba.—Coll., A. R. C. Selwyn, 1882.—Cretaceo-Tertiary, K. L. (Laramie). (3747.)

SPECIMENS ILLUSTRATING THE DISTRIBUTION OF
IRON ORES—*Continued.***Siderite or Spathic Iron, and Varieties of the same**—*Continued.*

- Clay iron-stone.—Pembina River, Manitoba.—Coll., G. M. Dawson, 1873.—Table-case
Cretaceous, K. (5570.) 46.—
- Great Valley, district of Assiniboia, N.W.T.—Coll., G. M. Daw-
son, 1873.—Cretaceo-Tertiary, K.L. (Laramie). (2082.) *Continued.*
- Souris River, near Wood End Dépôt, district of Assiniboia, N.W.
T.—Coll., G. M. Dawson, 1873. (5572.)
- Twelve miles east of White Mud River (on trail), district of As-
siniboia, N.W.T.—Coll., G. M. Dawson, 1873. (3656.)
- Bad Lands, south of Wood Mountain, district of Assiniboia, N.W.
T.—Coll., G. M. Dawson, 1873. (5569.)
- North-east of East Butte, district of Assiniboia, N.W.T.—Coll., G.
M. Dawson, 1873.—Cretaceous, K. (5571.)
- About fifteen miles south of Fort Pelly, at the intersection of Fort
Pelly Road and White Mud River, district of Assiniboia, N.
W.T.—Coll., R. Bell, 1875.—Cretaceous, K. (2140.)
- Dirt Hills, about one hundred miles south-west of Qu'Appelle, dis-
trict of Assiniboia, N.W.T.—Coll., R. Bell, 1873.—Tertiary,
L. (2079.)
- Middle Bluff, Dirt Hills, district of Assiniboia, N.W.T.—Coll., R.
Bell, 1873.—Tertiary, L. (2083.)
- North Saskatchewan River, near Edmonton, District of Alberta, N.
W.T.—Coll., R. W. Ells, 1875.—Cretaceo-Tertiary, K. L.
(Laramie). (2090.)
- (partially reduced). From burnt seam of lignite, Haney's second
claim, North Saskatchewan River, section 35, township 50,
range IV., west of the 5th initial meridian, about sixty miles
above Edmonton, district of Alberta, N.W.T.—Coll., J. B.
Tyrrell, 1886.—Cretaceo-Tertiary, K. L. (Laramie). (5443.)
- Ridge south of Battle River, township 38, range XIII., west of the
4th initial meridian, district of Alberta, N.W.T.—Coll., J.
B. Tyrrell, 1884.—Cretaceo-Tertiary, K.L. (Laramie). (5435.)
- Red Deer River, township 35, range XXI., west of the 4th initial
meridian, district of Alberta, N.W.T.—Coll., J. B. Tyrrell,
1884.—Cretaceo-Tertiary, K. L. (Laramie). (5433.)
- Red Deer River, township 38, range XXIV., west of the 4th initial
meridian, district of Alberta, N.W.T.—Coll., J. B. Tyrrell,
1884.—Cretaceo-Tertiary, K. L. (Laramie), (5434.)
- Twelve miles above Prairie Island, Bow River, district of Alberta,
N.W.T.—Coll., G. M. Dawson, 1881.—Cretaceous, K. (2137.)
- Eight miles above Grassy Island, Bow River, district of Alberta, N.
W.T.—Coll., G. M. Dawson, 1881.—Cretaceous, K. (2138.)
- Kananaskis or Rapid River, near its confluence with the Bow River,
district of Alberta, N.W.T.—Coll., G. M. Dawson, 1881.—
Cretaceo-Tertiary, K. L. (Laramie). (2144.)
- Coal Banks, Belly River, district of Alberta, N.W.T.—Coll., G. M.
Dawson, 1881.—Cretaceous, K. (2145.)
- North-east angle of Driftwood Bend, Belly River, district of Al-
berta, N.W.T.—Coll., G. M. Dawson, 1881.—Cretaceous, K.
(2142.)
- Three miles south of Big Island, Belly River, district of Alberta,
N.W.T.—Coll., G. M. Dawson, 1881.—Cretaceous, K. (2143.)
- Mill Creek, four miles above the mill, Old Man River, district of
Alberta, N.W.T.—Coll., G. M. Dawson, 1881.—Cretaceous
K. or Cretaceo-Tertiary, K. L. (Laramie). (2139.)

SPECIMENS ILLUSTRATING THE DISTRIBUTION OF
IRON ORES—*Continued.***Siderite or Spathic Iron, and Varieties of the same—Continued.**

- Table-case 46.—
Continued.
- Clay iron-stone.**—Smoky River, seventeen miles above Little Smoky River, N.W.T.—Coll., G. M. Dawson, 1880.—Cretaceous, K. (2136.)
- Quesnel, B.C.—Coll., G. M. Dawson.—Tertiary, L. (2096.)
- Baynes Sound mine, Comox, Vancouver Island, B.C.—Coll., J. Richardson, 1872.—Cretaceous, K. (2088.)
- Cowgitz, Skidegate Inlet, Queen Charlotte Islands, B.C.—Coll., J. Richardson, 1872.—Cretaceous, K. (2080.)
- Nicholson's tunnel, Cowgitz, Skidegate Inlet, Queen Charlotte Islands, B.C.—Coll., J. Richardson, 1872.—Cretaceous, K. (2081.)
- Coal mine, Skidegate Inlet, Queen Charlotte Islands, B.C.—Coll., J. Richardson, 1872.—Cretaceous, K. (2084.)
- Queen Charlotte Islands, B.C.—Coll., J. Richardson, 1872.—Cretaceous, K. (2087.)

Ilmenite or Titanic Iron.

- Upright table-case 33.
- Titanic iron ore.**—Rapid River, Bay of Seven Islands, Saguenay county, Q.—Coll., T. Sterry Hunt, 1868.—Laurentian, A. (2045.)
- (with rutile).—St. Urbain, Bay St. Paul, Charlevoix county, Q.—Laurentian, A. (2035.)
- St. Urbain, Bay St. Paul, Charlevoix county, Q.—Laurentian, A. (2044.)
- St. Irénée, seigniory of Malbaie, Charlevoix county, Q.—Laurentian, A. (4640.)
- Château Richer, Montmorency county, Q.—Coll., W. E. Logan, 1852.—Laurentian, A. (2036.)
- St. Julien, township of Rawdon, Montcalm county, Q.—Laurentian, A. (2039.)
- Lot 7, range I. of Wexford, Terrebonne county, Q.—Laurentian, A. (2123.)
- Thirty miles from St. Jérôme, Terrebonne county, Q.—Laurentian, A.—(2034.)
- Lot 1, range III. of Brome, Brome county, Q.—Pre-Cambrian, B? (2040.)
- Lot 1, range I. of Brome, Brome county, Q.—Pre-Cambrian, B? (2041.)
- Lot 2, range III. of Brome, Brome county, Q.—Pre-Cambrian, B? (2042.)
- Lot 3, range VII. of Sutton, Brome county, Q.—Pre-Cambrian, B? (3660.)
- Lot 6, range IX. of Sutton, Brome county, Q.—Pre-Cambrian, B? (2043.)
- Lot 7, range IX. of Sutton, Brome county, Q.—Pre-Cambrian, B? (2046.)

Specimens of iron ore from some of the more important deposits are shown in upright wing-cases 4 and 5.

MINERAL ASSOCIATIONS OF MAGNETITE, HEMATITE
AND LIMONITE.

Magnetite in association with Titaniferous Iron.

- Iron sand.**—East side of St. John River, Mingan, seigniorship of Mingan, Saguenay county, Q. (1980.) Upright table-case 33.—
— Amherst Island, Magdalen Islands, Q.—Coll., J. Richardson, 1881. (1444.) *Continued.*
- Bersimis, Saguenay county, Q. (1982.)
— Portneuf, seigniorship of Mille Vaches, Saguenay county, Q. (1983.)
— Moisie, Saguenay county, Q. (1984.)
— Moisie, Saguenay county, Q.—(washed). (1985.)
— Batiscan, Champlain county, Q. (1981.)
— Hanlan Island, Toronto Bay, York county, O. (2117.)
— First Fall, Little Whale River, east coast of Hudson Bay.—Coll., R. Bell, 1877. (2118.)
- Magnetite, titaniferous.**—St. François, three miles north-east of the Chaudière River and half a mile from St. Joseph, Beauce county, Q.—Cambrian, C. (1967.)
- Lot 23, range VII. of Shawenigan, St. Maurice county, Q.—Coll., R. W. Ells, 1880.—Laurentian, A. (3648.)
- East half of lot 6, range X. of Fitzroy, Carleton county, O.—Laurentian, A. (2119.) Upright table-case 34.
- East half of lot 6, range X. of Fitzroy, Carleton county, O.—Laurentian, A. (2121.)
- Lot 2 or 3, range XII. of Fitzroy, Carleton county, O.—Coll., H. G. Vennor.—Laurentian, A. (2122.)
- West corner of lot 5, range XII. of Fitzroy, Carleton county, O.—Laurentian, A. (2120.)
- Silver Lake, South Sherbrooke, Lanark county, O.—Coll., H. G. Vennor, 1874.—Laurentian, A. (1938.)
- with pyrite.—Chaffey mine, lot 26, range VI. of South Crosby, Lanark county, O.—Coll., B. J. Harrington, 1873.—Laurentian, A. (1963.)
- Chaffey mine, lot 26, range VI. of South Crosby, Lanark county, O.—Coll., B. J. Harrington, 1883.—Laurentian, A. (1964.)
- Yankee mine, South Crosby, Lanark county, O.—Coll., B. J. Harrington, 1873.—Laurentian, A. (1970.)
- Foley mine, lot 10, range VIII. of Bathurst, Lanark county, O.—Coll., B. J. Harrington, 1873.—Laurentian, A. (1926.)
- with calcite, apatite and mica.—Foley mine, lot 10, range VIII. of Bathurst, Lanark county, O.—Coll., B. J. Harrington, 1873.—Laurentian, A. (1937.)
- with apatite and calcite.—Foley mine, lot 10, range VIII. of Bathurst, Lanark county, O.—Coll., B. J. Harrington, 1873.—Laurentian, A. (1957.)
- with apatite.—McVeigh lot, lot 11, range VIII. of Bathurst, Lanark county, O.—Coll., B. J. Harrington, 1873.—Laurentian, A. (1925.)
- with calcite.—McVeigh lot, lot 11, range VIII. of Bathurst, Lanark county, O.—Coll., B. J. Harrington, 1873.—Laurentian, A. (1927.)
- with hornblende.—McVeigh lot, lot 11, range VIII. of Bathurst, Lanark county, O.—Coll., B. J. Harrington, 1873.—Laurentian, A. (1933.)

MINERAL ASSOCIATIONS OF MAGNETITE, HEMATITE
AND LIMONITE—*Continued.*

Magnetite, mineral associations of.

- Upright
table-case
34.—
Continued.
- Magnetite**, in chloritic schist.—Lot 6, range VI. of Sutton, Brome county, Q.—Pre-Cambrian, B? (1950.)
- and hematite.—Lot 7, range V. of Leeds, Megantic county, Q.—Pre-Cambrian, B? (1965.)
- and garnet.—Lot 3, range V. of Grenville, Argenteuil county, Q.—Coll., B. J. Harrington, 1878.—Laurentian, A. (1941.)
- with hematite, pyrite, graphite and steatite.—Forsyth mine, lot 11, range VII. of Hull, Ottawa county, Q.—Laurentian, A. (1904.)
- with hematite and graphite (red ore).—Forsyth mine, lot 11, range VII. of Hull, Ottawa county, Q.—Laurentian, A. (1905.)
- with graphite and hornblende.—Forsyth mine, lot 11, range VII. of Hull, Ottawa county, Q.—Laurentian, A. (1910.)
- Mica**, calcite, pyroxene and graphite.—Baldwin mine, lot 13, range VI. of Hull, Ottawa county, Q.—Coll., B. J. Harrington, 1880.—Laurentian, A. (1907.)
- Magnetite**, with graphite.—Lots 39 and 40, range II. of Cameron, Ottawa county, Q.—Coll., H. G. Vennor, 1876.—Laurentian, A. (2114.)
- with orthoclase and epidote.—Bristol mine, lot 21, range II. of Bristol, Pontiac county, Q.—Coll., S. Barlow, 1891.—Laurentian, A. (2723.)
- with mica schist.—Lot 22, range II. of Bristol, Pontiac county, Q.—Coll., B. J. Harrington, 1873.—Laurentian, A. (1912.)
- and pyrite.—Wilbur mine, lot 4, range XII. of Lavant, Lanark county, O.—Coll., E. Coste, 1884.—Laurentian, A. (5624.)
- Hornblende** and pyrite.—Fournier mine, lot 14, range I. of South Sherbrooke, Lanark county, O.—Coll. B. J. Harrington, 1873.—Laurentian, A. (4641.)
- Magnetite**, felspar and hornblende.—Fournier mine, lot 14, range I. of South Sherbrooke, Lanark county, O.—Coll., B. J. Harrington, 1873.—Laurentian, A. (1928.)
- Hornblende** and mica.—Fournier mine, lot 14, range I. of South Sherbrooke, Lanark county, O.—Coll., B. J. Harrington, 1873.—Laurentian, A. (1929.)
- Diorite**.—Fournier mine, lot 14, range I. of South Sherbrooke, Lanark county, O.—Coll., B. J. Harrington, 1873.—Laurentian, A. (1932.)
- Magnetite**, with hornblende and mica.—Fournier mine, lot 14, range I. of South Sherbrooke, Lanark county, O.—Coll., B. J. Harrington, 1873.—Laurentian, A. (1961.)
- Upright
table-case
35.
- Hornblende**, with magnetite.—Bygrove mine, lot 3, range I. of South Sherbrooke, Lanark county, O.—Coll., B. J. Harrington, 1873.—Laurentian, A. (1939.)
- Labradorite rock**, with magnetite.—Chaffey mine, lot 26, range VI. of South Crosby, Leeds county, O.—Coll., B. J. Harrington, 1873.—Laurentian, A. (1962.)
- Serpentine** and calcite.—Chaffey mine, lot 26, range VI. of South Crosby, Leeds county, O.—Coll., B. J. Harrington, 1873.—Laurentian, A. (1978.)
- Labradorite rock**.—Yankee mine, South Crosby, Leeds county, O.—Coll., B. J. Harrington, 1873.—Laurentian, A. (1972.)
- Magnetite**, with chalcopyrite.—Lot 7, range II. of Escott, Leeds county, O.—Coll., A. Murray, 1851.—Laurentian, A. (1949.)

MINERAL ASSOCIATIONS OF MAGNETITE, HEMATITE
AND LIMONITE—*Continued.*

Magnetite, mineral associations of—*Continued.*

- Hornblende**, with magnetite.—Howse mine, lot 4, range I. of Bedford, Frontenac county, O.—Coll., B. J. Harrington, 1873.—Laurentian, A. (1973.) Upright table-case 35.—*Continued.*
- Gneiss**.—Howse mine, lot 4, range I. of Bedford, Frontenac county, O.—Coll., B. J. Harrington, 1873.—Laurentian, A. (1975.)
- Magnetite**, with pyroxene.—Howse mine, lot 4, range I. of Bedford, Frontenac county, O.—Coll., B. J. Harrington, 1873.—Laurentian, A. (1977.)
- with serpentine.—Thirty Island Lake, lot 6, range III. of Bedford, Frontenac county, O.—Coll., C. W. Willimott, 1883.—Laurentian, A. (3659.)
- Serpentine** and calcite.—Thirty Island Lake, lot 6, range III. of Bedford, Frontenac county, O.—Coll., C. W. Willimott, 1883.—Laurentian, A. (4605.)
- Magnetite**, with steatite.—Lot 3, range V. of Elzevir, Hastings county, O.—Coll., H. G. Vennor, 1872.—Laurentian, A. (1943.)
- with mica.—Seymour ore bed, lot 11, range V. of Madoc, Hastings county, O.—Coll., B. J. Harrington, 1873.—Laurentian, A. (1920.)
- with actinolite.—Seymour ore bed, lot 11, range V. of Madoc, Hastings county, O.—Coll., B. J. Harrington, 1873.—Laurentian, A. (1922.)
- with uran ochre.—Seymour ore bed, lot 11, range V. of Madoc, Hastings county, O.—Coll., B. J. Harrington, 1873.—Laurentian, A. (1923.)
- with actinolite and steatite.—Seymour ore bed, lot 11, range V. of Madoc, Hastings county, O.—Coll., B. J. Harrington, 1873.—Laurentian, A. (1924.)
- with vein of quartz and actinolite.—Seymour ore bed, lot 11, range V. of Madoc, Hastings county, O.—Coll., B. J. Harrington, 1874.—Laurentian, A. (1971.)
- with hematite.—Cook and Thompson mine, lot 15, range V. of Madoc, Hastings county, O.—Coll., E. Coste, 1884.—Laurentian, A. (5717.)
- with hematite.—Moore mine, lot 17, range V. of Madoc, Hastings county, O.—Coll., E. Coste, 1884.—Laurentian, A. (5594.)
- with fluorite and pyrite.—Lot 26, range VIII. of Marmora, Hastings county, O.—Coll., B. J. Harrington, 1873.—Laurentian, A. (1986.)
- with spathic iron and chalcopyrite.—Lot 6, range VIII. of Marmora, Hastings county, O.—Coll. B. J. Harrington, 1873.—Laurentian, A. (1987.)
- with pyrite and chalcopyrite.—Lot 6, range VIII. of Marmora, Hastings county, O.—Coll., B. J. Harrington, 1873.—Laurentian, A. (1988.)
- with feldspar.—Lot 6, range VIII. of Marmora, Hastings county, O.—Coll., B. J. Harrington, 1873.—Laurentian, A. (1989.)
- with pyroxene.—Big ore bed, lot 8, range I. of Belmont, Peterborough county, O.—Coll., B. J. Harrington, 1873.—Laurentian, A. (1915.)
- with serpentine.—Big ore bed, lot 8, range I. of Belmont, Peterborough county, O.—Coll., B. J. Harrington, 1873.—Laurentian, A. (1916.)

MINERAL ASSOCIATIONS OF MAGNETITE, HEMATITE
AND LIMONITE—*Continued.*

Magnetite, mineral associations of—*Continued.*

- Upright
table-case
35.—
Continued.
- Magnetite**, with pyrite.—Big ore bed, lot 8, range I. of Belmont, Peterborough county, O.—Coll., B. J. Harrington, 1873.—Laurentian, A. (1918.)
- Asbestos**.—Big ore bed, lot 8, range I. of Belmont, Peterborough county, O.—Coll., B. J. Harrington, 1873.—Laurentian, A. (1919.)
- Magnetite** with jasper.—Batchewahung Bay, Lake Superior, O.—Coll., R. Bell, 1860.—Huronian, B. (2115.)
- pyrite and jasper.—Batchewahung Bay, Lake Superior, O.—Coll., R. Bell, 1860.—Huronian, B. (2116.)

Hematite, mineral associations of.

- Upright
table-case
36.
- Göthite**, hematite and calcite.—Mouth of the Shubenacadie River, Colchester county, N.S.—Coll., B. J. Harrington, 1873.—Carboniferous, G 1. (2004.)
- Hematite** and calcite.—Mouth of the Shubenacadie River, Colchester county, N.S.—Coll., B. J. Harrington, 1873.—Carboniferous, G 1. (2013.)
- Barite**, calcite and hematite.—Mouth of the Shubenacadie River, Colchester county, N.S.—Coll., B. J. Harrington, 1873.—Carboniferous, G 1. (2015.)
- Oxide of manganese**.—Area 46, East River, Pictou county, N.S.—Coll., B. J. Harrington, 1873. (2057.)
- Specular iron ore** with pyrite.—Area 100, East River, Pictou county, N.S.—Coll., B. J. Harrington, 1873.—Silurian, E. (2001.)
- Slate** with hematite.—Area 101, East River, Pictou county, N.S.—Coll., B. J. Harrington, 1873.—Silurian, E. (2011.)
- Ankerite**.—Area 101, near Websters, East River, Pictou county, N.S.—Coll., B. J. Harrington, 1873.—Silurian, E. (5794.)
- Calcite**.—Peter Totten lot, Acadia Mines, Londonderry, Colchester county, N.S.—Coll., B. J. Harrington, 1873.—Cambro-Silurian, D. (2021.)
- Specular iron ore** and limonite.—Martin's Brook, Acadia Mines, Londonderry, Colchester county, N.S.—Cambro-Silurian, D. (2016.)
- Ankerite**.—Acadia Mines, Londonderry, Colchester county, N.S.—Coll., B. J. Harrington, 1873.—Cambro-Silurian, D. (2093.)
- with barite, calcite and micaceous iron ore.—New Mines, Londonderry, Colchester county, N.S.—Coll., A. E. Barlow, 1884.—Cambro-Silurian, D. (4858.)
- Hematite** and limonite.—Near Clifton (formerly Old Barns), Colchester county, N.S.—Coll., B. J. Harrington, 1873.—Carboniferous, G 1. (4642.)
- Specular iron ore**, with orthoclase.—Haycock mine, lot 28, range VI. of Templeton, Ottawa county, Q.—Coll., B. J. Harrington, 1873.—Laurentian, A. (1991.)
- with orthoclase, fluorite and calcite.—Haycock mine, lot 28, range VI. of Templeton, Ottawa county, Q.—Coll., B. J. Harrington, 1873.—Laurentian, A. (1992.)
- with calcite and pyroxene.—Haycock mine, lot 28, range VI. of Templeton, Ottawa county, Q.—Coll., B. J. Harrington, 1873.—Laurentian, A. (2000.)
- penetrated by crystals of pyroxene.—Haycock mine, lot 28, range VI. of Templeton, Ottawa county, Q.—Coll., B. J. Harrington, 1873.—Laurentian, A. (2023.)

MINERAL ASSOCIATIONS OF MAGNETITE, HEMATITE
AND LIMONITE—*Continued.*

Hematite, mineral associations of—*Continued.*

- Specular iron ore**, with apatite.—Lot 10, range VII. of North Burgess, Lanark county, O.—Coll., H. G. Vennor, 1871.—Laurentian, A. (2002.) Upright table-case 36.—*Continued.*
- Hematite** with magnetite.—Moore mine, lot 17, range V. of Madoc, Hastings county, O.—Coll., E. Coste, 1884.—Laurentian, A. (5595.)

Limonite, mineral associations of.

- Limonite**, with barite.—Fraser Saddler area (46), East River, Pictou county, N.S.—Coll., B. J. Harrington, 1873. (2049.)
- with quartzite.—Martin's Brook, Acadia Mines, Londonderry, Colchester county, N.S.—Coll., B. J. Harrington, 1873.—Cambro-Silurian, D. (2055.)
- Iron ochre**.—Martin's Brook, Acadia Mines, Londonderry, Colchester county, N.S.—Coll., B. J. Harrington, 1873.—Cambro-Silurian, D. (2060.)
- Ankerite**.—Acadia Mines, Londonderry, Colchester county, N.S.—Coll. B. J. Harrington, 1873.—Cambro-Silurian, D. (2095.)
- with specular iron ore.—Martin's Brook, Acadia Mines, Londonderry, Colchester county, N.S.—Coll., B. J. Harrington, 1873.—Cambro-Silurian, D. (2097.)
- Quartzite** with veins of ankerite.—Martin's Brook, Acadia Mines, Londonderry, Colchester county, N.S.—Coll., B. J. Harrington, 1873.—Cambro-Silurian, D. (2098.)

COPPER ORES,

Copper, native.

- Native copper**.—Mamainse (Namainse), Lake Superior, district of Algoma, O.—Coll., W. E. Logan, 1846.—Cambrian, C I. (263.) Upright wing-case 6.
- Nipigon Bay, Lake Superior, district of Thunder Bay, O.—Coll., W. E. Logan, 1846.—Cambrian, C I. (265.)
- Ewart's location, Lake Superior, district of Thunder Bay, O.—Coll., W. E. Logan, 1846.—Cambrian, C I. (267.)
- Michipicoten Island, Lake Superior, district of Thunder Bay, O.—Coll., W. E. Logan, 1846.—Cambrian, C I. (285.)
- in sandstone.—Michipicoten Island, Lake Superior, district of Thunder Bay, O.—Presented by W. W. Stuart, 1875.—Cambrian, C I. (286.)
- nugget, found loose.—British Columbia. (179.)
- From an abandoned working on coast two miles east of the entrance to Sooke Harbour, Vancouver Island, B.C. (5253.)

Chalcocite or Vitreous Copper Ore.

- Vitreous copper ore** (Chalcocite).—From near Salmon River, parish of Alma, Albert county, N.B.—Presented by W. Davidson, 1875.—Pre-Cambrian, A. B. (145.)

COPPER ORES—*Continued.***Chalcocite or Vitreous Copper Ore**—*Continued.*

- Upright
wing-case
6.—
Continued.
- Vitreous copper ore** Grand Manan Island, Charlotte county, N.B.—Coll., L. W. Bailey, 1870.—Triassic, H. (171.)
- From the “American” shaft, Harvey Hill mine, lot 17, range XV. of Leeds, Megantic county, Q.—Coll., C. W. Willimott, 1889.—Pre-Cambrian, B? (173.)
- with purple copper ore.—“Nutbrown” shaft, lot 15, range XIV. of Leeds, Megantic county, Q.—Coll., J. Richardson.—Pre-Cambrian, B? (239.)
- Lot 16, range XIV. of Leeds, Megantic county, Q.—Coll., J. Richardson.—Pre-Cambrian, B? (251.)
- Lot 10, range VI. of Halifax, Megantic county, Q.—Pre-Cambrian, B? (215.)

Bornite or Purple Copper Ore.

- Purple copper ore** (bornite).—Adam’s Island, Passamaquoddy Bay, Charlotte county, N.B.—Coll., L. W. Bailey, 1870.—Pre-Cambrian, A.B. (278.)
- Lot 1, range I. of Wendover, Drummond county, Q.—Coll., J. Richardson, 1865.—Cambrian, C. (178.)
- Lot 23, range III. of Roxton, Shefford county, Q.—Coll., J. Richardson, 1863.—Cambrian, C. (205.)
- with vitreous copper ore.—Lots 1, 2 and 3, range Ste. Marguerite, seigniorie of St. Giles, Lotbinière county, Q.—Coll., J. Richardson, 1866.—Cambrian, C. (217.)
- in steatite.—Harvey Hill mine, lot 17, range XV. of Leeds, Megantic county, Q.—Coll., J. Richardson.—Pre-Cambrian, B? (245.)
- with quartz, in dolomite.—Harvey Hill mine, lot 17, range XV. of Leeds, Megantic county, Q.—Pre-Cambrian, B? (252.)
- with copper pyrites.—Harvey Hill mine, lot 17, range XV. of Leeds, Megantic county, Q.—Pre-Cambrian, B? (253.)
- Acton mine, lot 32, range III. of Acton, Bagot county, Q.—Coll., J. Richardson, 1864.—Cambrian, C. (208.)
- in limestone and chert conglomerate.—Acton mine, lot 32, range III. of Acton, Bagot county, Q.—Cambrian, C. (256.)
- Lot 33, range IV. of Acton, Bagot county, Q.—Coll., J. Richardson, 1865.—Cambrian, C. (211.)
- St. Francis mine, lot 25, range XII. of Cleveland, Richmond county, Q.—Coll., J. Richardson, 1862.—Pre-Cambrian, B? (230.)
- with copper pyrites.—Sweet’s mine, lot 8, range X. of Sutton, Brome county, Q.—Coll., J. Richardson, 1862.—Pre-Cambrian, B? (241.)
- with copper pyrites.—Bruce Mines, Lake Huron, district of Algoma, O.—Coll., R. Bell, 1860.—Huronian, B. (294.)
- Mamainse (Namainse), Lake Superior, district of Algoma, O.—Coll., R. Bell, 1876.—Cambrian, C 1. (262.)
- Mamainse (Namainse), Lake Superior, district of Algoma, O.—Coll., W. E. Logan, 1846.—Cambrian, C 1. (283.)
- with copper pyrites.—Near the head of Salmon Arm, Jarvis Inlet (between Jarvis Inlet and Howe Sound), B.C.—Coll., G. M. Dawson, 1875. (287.)

COPPER ORES—*Continued.***Chalcopyrite or Copper Pyrites.**

- Copper pyrites** (chalcopyrite).—Coxheath copper mine, Coxheath, Cape Breton county, N.S.—Presented by Isaac P. Gragg, manager, Eastern Development Company, 1886.—Pre-Cambrian, A. B. (5538.)
- Polson's Lake, Antigonish county, N.S.—Presented by H. S. Poole, 1875.—Devonian, F. (257.)
- with magnetic pyrites.—Lochaber Lake, Antigonish county, N.S.—Presented by James Hudson, 1875.—Devonian, F. (258.)
- Bissonette's mine, lot 49, range XX. of Upton, Drummond county, Q.—Coll., J. Richardson.—Cambro-Silurian, D. (204.)
- with purple copper ore.—Wickham mine, lot 15, range X. of Wickham, Drummond county, Q.—Coll., J. Richardson.—Cambrian, C. (206.)
- Durham mine, lot 21, range VII. of Durham, Drummond county, Q.—Coll., J. Richardson, 1864.—Cambrian, C. (207.)
- Lot 1, range I. of Wendover, Drummond county, Q.—Coll., J. Richardson.—Cambrian C. (221.)
- with purple ore.—Nicolet Branch mine, lot 28, range IV. of Ham, Wolfe county, Q.—Coll., J. Richardson, 1861.—Pre-Cambrian, B? (209.)
- with iron pyrites.—Lot 22, range I. of Garthby, Wolfe county, Q.—Coll., J. Richardson, 1849.—Pre-Cambrian, B? (218.)
- Harvey Hill mine, lot 17, range XV. of Leeds, Megantic county, Q.—Coll., C. W. Willimott, 1882.—Pre-Cambrian, B? (170.)
- Belvidere mine, lot 10, range IX. of Ascot, Sherbrooke county, Q.—Coll., J. Richardson, 1864.—Pre-Cambrian, B? (220.)
- Lot 15, range VII. of Ascot, Sherbrooke county, Q.—Coll., J. Richardson.—Pre-Cambrian, B? (223.)
- Ascot mine, Haskell Hill, west half of lot 8, range VIII. of Ascot, Sherbrooke county, Q.—Coll., J. Richardson, 1866.—Pre-Cambrian B? (234.)
- Capel mine, lot 4, range VIII. of Ascot, Sherbrooke county, Q.—Coll., J. Richardson, 1866.—Pre-Cambrian, B? (236.)
- Lot 9, range XVIII. of Orford, Sherbrooke county, Q.—Coll., J. Richardson, 1866.—Cambrian, C. (224.)
- with purple copper ore.—Black River mine, St. Flavien, Lotbinière county, Q.—Coll., W. E. Logan, 1861.—Cambrian C. (212.)
- Lot 2, range IV. of Brome, Brome county, Q.—Presented by W. W. Stuart, 1875.—Pre-Cambrian, B? (243.)
- Huntingdon mine, lot 8, range VIII. of Bolton, Brome county, Q.—Coll., J. Richardson, 1863.—Cambrian, C. (249.)
- East half of lot 14, range XI. of Beckwith, Lanark county, O.—Presented by J. L. McNeely, 1886.—Cambrian, C 2. (5336.)
- Lot 6, range VII. of Lavant, Lanark county, O.—Coll., H. G. Vennor, 1873.—Laurentian, A. (279.)
- Lot 2, range IX. of North Burgess, Lanark county, O.—Coll., H. G. Vennor, 1873.—Laurentian, A. (301.)
- Lot 1, range V. of North Elmsley, Lanark county, O.—Coll., H. G. Vennor.—Laurentian, A. (250.)
- Gananoque Lake, Leeds, Leeds county, Q.—Coll., A. Murray, 1850. Loose. (276.)
- Lot 7, range II. of Escott, Leeds county, O.—Coll., A. Murray, 1850.—Laurentian, A. (288.)

Upright
wing-case
7.

COPPER ORES—*Continued.***Chalcopyrite or Copper Pyrites**—*Continued.*

Upright wing-case 7.— <i>Continued.</i>	<p>Copper pyrites— West half of lot 2, range IX. of Palmerston, Frontenac county, O.—Presented by G. Oliver, 1875.—Laurentian, A. (308.)</p> <p>— Murray mine, lot 11, range V. of McKim, district of Nipissing, O.—Coll., A. R. C. Selwyn, 1884.—Huronian, B. (5062.)</p> <p>— Worthington mine, lot 2, range II. of Drury, district of Algoma, O.—Coll., A. E. Barlow, 1891.—Huronian, B. (5063.)</p> <p>— with magnetic pyrites.—Copper Cliff mine, lot 12 range II. of McKim, district of Nipissing, O.—Presented by W. C. Van Horne, 1887.—Huronian, B. (5418.)</p> <p>— Evan's mine, lot 1, range I. of Snider, district of Algoma, O.—Coll., A. R. C. Selwyn, 1888.—Huronian, B. (5710.)</p> <p>— Bruce mines, Lake Huron, district of Algoma, O.—Coll., R. Bell, 1860.—Huronian, B. (5426.)</p> <p>— Wallace mining location, about one mile west of the mouth of Whitefish River, Lake Huron, district of Algoma, O.—Coll., R. Bell, 1860.—Huronian, B. (298.)</p> <p>— Huron Copper Bay mining location, Lake Huron, district of Algoma, O.—Coll., R. Bell, 1860.—Huronian, B. (293.)</p> <p>— Rankin mine, eastern shaft, Emerald mining location, Root River, district of Algoma, O.—Coll., A. Murray, 1860.—Huronian, B. (291.)</p> <p>— Rankin mine, western shaft, Emerald mining location, Root River, district of Algoma, O.—Coll., A. Murray, 1860.—Huronian, B. (299.)</p> <p>— Lot A, north side of Echo Lake, district of Algoma, O.—Presented by G. F. Austin, 1882.—Huronian, B. (300.)</p> <p>— Keating's location, Lake Huron, district of Algoma, O.—Coll., A. Murray, 1847.—Huronian, B. (303.)</p> <p>— Wellington mine, Lake Huron, district of Algoma, O.—Coll., R. Bell, 1860.—Huronian, B. (307.)</p> <p>— Portlock Harbour, Lake Huron, district of Algoma, O.—A. Murray, 1860.—Huronian, B. (971.)</p> <p>— Pointe aux Mines, Lake Superior, district of Algoma, O.—Coll., W. E. Logan, 1846.—Cambrian, C 1. (259.)</p> <p>— Mamainse (Namainse), Lake Superior, district of Algoma, O.—Coll., W. E. Logan, 1846.—Cambrian, C. (273.)</p> <p>— McKellar's mine, about a mile and a half north-west of the mouth of Little Pic River, Lake Superior, district of Thunder Bay, O.—Coll., R. Bell, 1875.—Huronian, B. (99.)</p> <p>— with iron pyrites.—Copper claim opposite 49 Creek, Kootanie River, B.C.—Presented by J. A. Mara, 1890. (5261.)</p> <p>— Malaspina mine, north-east side of Texada Island, B.C.—Coll., G. M. Dawson, 1885. (5279.)</p>
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SPECIMENS ILLUSTRATING THE DISTRIBUTION OF
COPPER ORES.**Copper, native.**

Table-case 39.	<p>Native copper.—Two Islands, Cumberland county, N.S.—Coll., Scott Barlow, 1875.—Triassic, H. (3676.)</p> <p>— Horseshoe Cove, Cape d'Or, Cumberland county, N.S.—Coll., C. W. Willimott, 1888.—Triassic H. (5659.)</p>
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SPECIMENS ILLUSTRATING THE DISTRIBUTION OF
COPPER ORES—*Continued.***Copper, native**—*Continued.*

- Native copper**—Bennet's Brook, east of Horseshoe Cove, Cumberland county, N.S.—Coll., C. W. Willimott, 1888.—Triassic, H.—(5660.)
- Mamainse (Namainse), Lake Superior, district of Algoma, O.—Coll., W. E. Logan, 1846.—Cambrian, C 1. (3414.)
- in amygdaloid.—Mamainse (Namainse), Lake Superior, district of Algoma, O.—Coll., W. E. Logan, 1846.—Cambrian, C 1. (3415.)
- in volcanic ash.—Michipicoten Island, Lake Superior, district of Thunder Bay, O.—Coll., A. R. C. Selwyn, 1883. (3595.)
- Eleven mile Creek, above Lillooet, east side of Fraser River, B.C.—Presented by Mr. Soues, 1890. (5228.)
- from sluice boxes.—Fraser River, a few miles above Stein Creek, B.C.—Presented by J. W. Mackay, 1890. (5938.)
- from placer mines, Thibert's Creek, Cassiar, B.C.—Coll., G. M. Dawson, 1885. (5557.)
- from placer mines near Vermilion Forks, Similkameen River, B.C.—Coll., G. M. Dawson, 1888. (5782.)
- from an abandoned working near Sooke, Vancouver Island, B.C.—(5254.)

Table-case
39.*Continued.***Chalcocite or Vitreous Copper Ore.**

- Vitreous copper ore** (chalcocite).—Minudie, Cumberland county, N.S.—Coll., S. Barlow, 1875.—Carboniferous, G. (4634.)
- Pugwash River, Cumberland county, N.S.—Presented by E. A. Black, 1884.—Carboniferous, G. (4821.)
- French River, New Annan, four miles south of Tatamagouche, Colchester county, N.S.—Coll., R. W. Ells, 1884.—Carboniferous, G. (1209.)
- Alma, Albert county, N.B.—Presented by W. Davidson, 1875.—Pre-Cambrian, A.B. (3572.)
- McKinley's mine, Alma, Albert county, N.B.—Coll., R. W. Ells, 1877.—Pre-Cambrian, A.B. (3593.)
- Dorchester, Westmoreland county, N.B.—Presented by J. W. Revere.—Carboniferous, G. (3581.)
- with green carbonate and coal.—Colonial copper mine, Dorchester, Westmoreland county, N.B.—Coll., R. W. Ells, 1881.—Carboniferous, G. (3677.)
- with green carbonate, in conglomerate.—Colonial copper mine, Dorchester, Westmoreland county, N.B.—Coll., R. W. Ells, 1884.—Carboniferous, G. (3680.)
- with green carbonate.—Grand Manan Island, Charlotte county, N.B.—L. W. Bailey, 1870.—Triassic, H. (3587.)
- Simpson's Island, Passamaquoddy Bay, Charlotte county, N.B.—Coll., L. W. Bailey, 1870.—Pre-Cambrian, A.B. (3583.)
- St. Caroline mine, River Etehem, St. Clair, Dorchester county, Q.—Coll., A. R. C. Selwyn, 1877.—Cambrian, C. (4631.)
- Lots 1, 2 and 3, range Ste. Marguerite, Lotbinière county, Q.—Coll., J. Richardson, 1866.—Pre-Cambrian, B? (3573.)
- Lot 10, range VI, of Halifax, Megantic county, Q.—Coll., J. Richardson, 1866.—Pre-Cambrian, B? (3574.)

SPECIMENS ILLUSTRATING THE DISTRIBUTION OF
COPPER ORES—*Continued.***Chalcocite or Vitreous Copper Ore**—*Continued.*

Table-case 39. <i>Continued.</i>	<p>Vitreous copper ore—American shaft, Harvey Hill mine, lot 17, range XV. of Leeds, Megantic county, Q. —Coll., C. W. Willimott, 1889.—Pre-Cambrian, B? (3649.)</p> <p>— Lot 18, range XV. of Leeds, Megantic county, Q.—Coll., C. W. Willimott, 1882.—Pre-Cambrian, B? (3570.)</p> <p>— Lot 15, range XIV. of Leeds, Megantic county, Q.—Pre-Cambrian, B? (3571.)</p> <p>— argentiferous.—Mamainse (Namainse), Lake Superior, district of Algoma, O.—Presented by W. W. Stuart, 1882.—Cambrian, C 1. (3576.)</p> <p>— Mamainse (Namainse), Lake Superior, district of Algoma, O.—Presented by H. R. Fletcher, 1860.—Cambrian, C 1. (3577.)</p> <p>— with blue and green carbonate.—First or southern shaft, Mamainse (Namainse), Lake Superior, district of Algoma, O.—Coll., W. E. Logan, 1860.—Cambrian, C 1. (3675.)</p> <p>— Pointe aux Mines, Lake Superior, district of Algoma, O.—Coll., W. E. Logan, 1846.—Cambrian, C 1. (3513.)</p> <p>— with purple copper ore and green and blue carbonate.—Prince's location, Spar Island, Lake Superior, district of Thunder Bay, O.—Coll., W. E. Logan, 1846.—Cambrian, C 1. (3575.)</p> <p>— argentiferous.—Spar Island, Lake Superior, district of Thunder Bay, O.—Cambrian, C 1. (3578.)</p> <p>— St. Ignace Island, Lake Superior, district of Thunder Bay, O.—Coll., W. E. Logan, 1846.—Cambrian, C 1. (3579.)</p> <p>— with native silver.—Harrison's location, St. Ignace Island, Lake Superior, district of Thunder Bay, O.—Coll., W. E. Logan, 1846.—Cambrian, C 1. (3590.)</p> <p>— Sheppard's location, east end of St. Ignace Island, Lake Superior, district of Thunder Bay, O.—Coll., W. E. Logan, 1846.—Cambrian, C 1. (4633.)</p> <p>— Point Porphyry, Lake Superior, district of Thunder Bay, O.—Coll., W. E. Logan, 1846.—Cambrian, C 1. (3596.)</p> <p>— with purple copper ore and blue and green carbonate.—Brisco Range, opposite lower end of Upper Columbia Lake, Rocky Mountains, B.C. (5083.)</p> <p>— with copper pyrites and green carbonate.—One mile north-west of Silver City, Rocky Mountains, district of Alberta, N.W.T.—Presented by D. B. Woodworth. (5138.)</p>
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Bornite or Purple Copper Ore.

Table-case 40.	<p>Purple copper ore (bornite).—Adam's Island, Charlotte county, N.B.—Coll., L. W. Bailey, 1870.—Pre-Cambrian, A.B. (3557.)</p> <p>— Waters' mine, Alma, Albert county, N.B.—Coll., R. W. Ells, 1877.—Pre-Cambrian, A.B. (3597.)</p> <p>— Indian Island, north side of the entrance of Hamilton Inlet, Labrador.—Coll., R. Bell, 1884. (3585.)</p> <p>— Lot 2, range IV. of Inverness, Megantic county, Q.—Coll., J. Richardson, 1847.—Pre-Cambrian, B? (3558.)</p> <p>— Harvey Hill mine, lot 17, range XV. of Leeds, Megantic county, Q.—Pre-Cambrian, B? (3569.)</p>
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SPECIMENS ILLUSTRATING THE DISTRIBUTION OF
COPPER ORES—*Continued.***Bornite or Purple Copper Ore**—*Continued.*

- Purple copper ore**, with dolomite and quartz.—Harvey Hill mine, lot 17, range XV. of Leeds, Megantic county, Q.—Pre-Cambrian, B? (3671.) Table-case
40.
Continued.
- with copper pyrites.—Harvey Hill mine, lot 17, range XV. of Leeds, Megantic county, Q.—Coll., C. W. Willimott, 1882. Pre-Cambrian, B? (3555.)
- in mica schist.—Harvey Hill mine, lot 17, range XV. of Leeds, Megantic county, Q.—Pre-Cambrian, B? (3562.)
- Nicolet Branch mine, lot 28, range IV. of Ham, Wolfe county, Q.—Coll., W. E. Logan, 1862.—Pre-Cambrian, B? (3560.)
- Lot 25, range XII. of Cleveland, Richmond county, Q.—Coll., J. Richardson, 1863.—Pre-Cambrian, B? (3512.)
- Lot 33, range IV. of Acton, Bagot county, Q.—Coll., J. Richardson, 1863.—Cambrian, C. (3564.)
- Lot 8, range X. of Sutton, Brome county, Q.—Coll., J. Richardson, 1863.—Pre-Cambrian, B? (3658.)
- Galt's mine, Orford, Sherbrooke county, Q.—Coll., C. W. Willimott, 1882.—Cambrian, C. (3561.)
- Bruce Mines, Lake Huron, district of Algoma, O.—Coll., R. Bell, 1860.—Huronian, B. (3567.)
- Keating's location, Lake Huron, district of Algoma, O.—Coll., A. Murray, 1847.—Huronian, B. (4629.)
- Begley mine, north shore of Batchewahung Bay, Lake Superior, district of Algoma, O.—Coll., T. Macfarlane, 1865.—Huronian, B. (3565.)
- Township of Tupper, district of Algoma, O.—Huronian, B. (4632.)
- with green carbonate.—Wilson's location, about one mile north-east of Batchewahung Bay, Lake Superior, district of Algoma, O.—Huronian, B. (4635.)
- Mamainse (Namainse), Lake Superior, district of Algoma, O.—Coll., R. Bell, 1876.—Cambrian, C 1. (3568.)
- First or southern shaft, Mamainse (Namainse), Lake Superior, district of Algoma, O.—Coll., W. E. Logan, 1860.—Cambrian, C 1. (3580.)
- Pointe aux Mines, Lake Superior, district of Algoma, O.—Coll., W. E. Logan, 1846.—Cambrian, C. (3584.)

Tetrahedrite or Grey Copper.

- Grey copper** (tetrahedrite).—Fraser River, left bank, twenty-five miles above Lytton, B.C.—Coll., G. M. Dawson, 1888. (5776.)

Chalcopyrite or Copper Pyrites.

- Copper pyrites** (chalcopyrite).—Coxheath copper mine, Coxheath, Cape Breton county, N.S.—Presented by Isaac P. Gragg, 1887.—Pre-Cambrian, A. B. (5539.)
- with specular iron ore.—Lochaber Lake, Antigonish county, N.S.—Coll., A. R. C. Selwyn, 1872.—Devonian, F. (3411.)
- with magnetic pyrites.—Lochaber Lake, Antigonish county, N.S.—Coll., A. R. C. Selwyn, 1872.—Devonian, F. (3420.)

SPECIMENS ILLUSTRATING THE DISTRIBUTION OF
COPPER ORES—*Continued.***Chalcopyrite or Copper Pyrites**—*Continued.*

Table-case 40.— <i>Continued.</i>	<p>Copper pyrites with spathic iron ore.—Polson's Lake, Antigonish county, N.S. Coll., A. R. C. Selwyn, 1872.—Devonian, F. (3419.)</p> <p>— Goodfellow's mine, New Ireland, Albert county, N.B.—Coll., R. W. Ells, 1881.—Pre-Cambrian, A. B. (3412.)</p> <p>— Woodstock, Carleton county, N.B.—Coll., C. Robb, 1869. (3413.)</p> <p>— Half a mile west of Crow Harbour Island, Charlotte county, N.B.—Coll., L. W. Bailey, 1870.—Pre-Cambrian, A. B. (3588.)</p> <p>— Vernon mine, St. Martin's, St. John county, N.B.—Coll., R. W. Ells, 1877.—Pre-Cambrian, A. B. (3592.)</p> <p>— Black River mine, St. Flavien, Lotbinière county, Q.—Coll., W. E. Logan, 1861.—Cambrian, C. (3426.)</p> <p>— Harvey Hill mine, lot 17, range XV. of Leeds, Megantic county, Q.—Coll., C. W. Willimott, 1882.—Pre-Cambrian, B? (3559.)</p> <p>— in chloritoid schist.—Harvey Hill mine, lot 17, range XV. of Leeds, Megantic county, Q.—Pre-Cambrian, B? (3432.)</p> <p>— with purple copper ore.—Harvey Hill mine, lot 17, range XV. of Leeds, Megantic county, Q.—Pre-Cambrian, B? (3559.)</p> <p>— Nicolet Branch mine, lot 28, range IV. of Ham, Wolfe county, Q.—Coll., W. E. Logan, 1862.—Pre-Cambrian, B? (3418.)</p> <p>— with iron pyrites.—Lot 22, range I. of Garthby, Wolfe county, Q.—Coll., J. Richardson, 1849.—Pre-Cambrian, B? (3423.)</p> <p>— Lot 21, range VII. of Durham, Drummond county, Q.—Cambrian, C. (3430.)</p> <p>— Lot 9, range X. of Warwick, Arthabaska county, Q.—Coll., J. Richardson, 1863.—Cambrian, C. (3594.)</p> <p>— Lot 9, range XVIII. of Orford, Sherbrooke county, Q.—Coll., J. Richardson, 1866.—Cambrian, C. (3416.)</p> <p>— Capel mine, south-east quarter of lot 4, range VIII. of Ascot, Sherbrooke county, Q.—Coll., J. Richardson, 1875.—Pre-Cambrian, B? (3417.)</p>
Table-case 41.	<p>— Suffield mine, lot 3, range XI. of Ascot, Sherbrooke county, Q.—Coll., C. W. Willimott, 1882.—Pre-Cambrian, B? (3433.)</p> <p>— with grey copper.—Suffield mine, lot 3, range XI. of Ascot, Sherbrooke county, Q.—Coll., C. W. Willimott, 1882.—Pre-Cambrian, B? (3434.)</p> <p>— with grey copper.—Hartford mine, lot 3, range IX. of Ascot, Sherbrooke county, Q.—Coll., J. Richardson, 1876.—Pre-Cambrian, B? (3429.)</p> <p>— with magnetic pyrites, apatite, molybdenite and spathic iron ore.—Lot 3, range VI. of Barford, Stanstead county, Q.—Coll., W. E. Logan, 1847.—Cambro-Silurian, D. (3424.)</p> <p>— Lot 27, range II. of Shefford, Shefford county, Q.—Coll., J. Richardson, 1866.—Cambrian, C. (3427.)</p> <p>— Lot 2, range IV. of Brome, Brome county, Q.—Presented by W. W. Stuart, 1875.—Pre-Cambrian, B? (3431.)</p> <p>— Huntingdon mine, Lot 8, range VIII. of Bolton, Brome county, Q.—Coll., J. Richardson, 1868.—Cambrian, C. (3650.)</p> <p>— in graphitic shale.—Lot 32, range III. of Acton, Bagot county, Q.—Coll., J. Richardson, 1863.—Cambrian, C. (3678.)</p> <p>— Lot 14, range XI. of Beckwith, Lanark county, O.—Presented by J. L. McNeely, 1886.—Cambrian, C 2. (5315.)</p> <p>— Lot 1, range V. of North Elmsley, Lanark county, O.—Laurentian, A. (3437.)</p>

SPECIMENS ILLUSTRATING THE DISTRIBUTION OF
COPPER ORES—*Continued.***Chalcopyrite or Copper Pyrites**—*Continued.*

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| Copper pyrites—Lot 7, range II. of Escott, Leeds county, O.—Coll., A. Murray, 1850.—Laurentian, A. (3439.) | Table-case
41.—
<i>Continued.</i> |
| — Lake, Hastings county, O.—Presented by W. Shanly, 1875.—Laurentian, A. (3428.) | |
| — West half of lot 2, range IX. of Palmerston, Frontenac county, O.—Presented by G. Oliver, 1875.—Laurentian, A. (3438.) | |
| — Palmerston, Frontenac county, O.—(Loose). (3673.) | |
| — Lots 14 and 15, range III. of South Canonto, Frontenac county, O.—Laurentian, A. (5582.) | |
| — Lot 7, range VI. of Belmont, Peterborough county, O.—Laurentian, A. (248.) | |
| — Copper Cliff mine, lot 12, range II. of McKim, district of Nipissing, O.—Coll., A. E. Barlow, 1890.—Huronian, B. (5956.) | |
| — Murray mine, lot 11, range V. of McKim, district of Nipissing, O.—Coll., A. R. C. Selwyn, 1884.—Huronian, B. (4850.) | |
| — Lot 1, range VI. of Waters, district of Algoma, O.—Coll., R. Bell, 1887.—Huronian, B. (5398.) | |
| — Worthington mine, lot 2, range II. of Drury, district of Algoma, O.—Coll., A. E. Barlow, 1890.—Huronian, B. (3548.) | |
| — with magnetic pyrites.—South half of lots 1 and 2, range II. of Drury, district of Algoma, O.—Presented by F. C. Crean, 1885.—Huronian, B. (5064.) | |
| — with magnetic pyrites.—Vermilion mine, lot 6, range IV. of Denison, district of Algoma, O.—Coll., A. E. Barlow, 1890.—Huronian, B. (3582.) | |
| — with magnetic pyrites.—Lots 1 and 2, range III. of Nairn, district of Algoma, O.—Coll., A. E. Barlow, 1890.—Huronian, B. (3554.) | |
| — Spanish River, district of Algoma, O.—Coll., A. Murray, 1848.—Huronian, B. (3436.) | |
| — Wallace mine, about one mile west of the mouth of Whitefish River, district of Algoma, O.—Coll., R. Bell, 1860.—Huronian, B. (3553.) | |
| — Straight Lake, south-east side, Moncrieff, district of Algoma, O.—Presented by Isaac Moore, 1887.—Huronian, B. (5447.) | |
| — Falls at the head of Grand Portage, Mississagui River, district of Algoma, O.—Coll., A. Murray, 1857.—Huronian, B. (4637.) | |
| — Huron Copper Bay location, Lake Huron, district of Algoma, O.—Coll., R. Bell, 1860.—Huronian, B. (3440.) | |
| — Bruce Mines, Lake Huron, district of Algoma, O.—Coll., R. Bell, 1860. Huronian, B. (3441.) | |
| — with purple copper ore.—Bruce Mines, Lake Huron, district of Algoma, O.—Coll., A. Murray, 1847.—Huronian, B. (3556.) | |
| — Wellington mine, Lake Huron, district of Algoma, O.—Coll., R. Bell, 1875.—Huronian, B. (3422.) | |
| — Keating's location, Lake Huron, district of Algoma, O.—Coll., A. Murray, 1847.—Huronian, B. (3435.) | |
| — Rankin mine, Emerald location, Root River, district of Algoma, O.—Coll., A. Murray, 1860.—Huronian, B. (4638.) | |
| — Lot A, north side of Echo Lake, district of Algoma, O.—Presented by G. F. Austin, 1880.—Huronian, B. (3549.) | |
| — Stobie's location, about two miles north-east of the head of Echo Lake, district of Algoma, O.—Coll., G. F. Lount, 1876.—Huronian, B. (4630.) | |

SPECIMENS ILLUSTRATING THE DISTRIBUTION OF
COPPER ORES—*Continued.***Chalcopyrite or Copper Pyrites**—*Continued.*

Table-case 41.— <i>Continued.</i>	Copper pyrites —Pointe aux Mines, Lake Superior, district of Algoma, O.—Coll., W. E. Logan, 1846.—Cambrian, C 1. (3425.)
—	with galena and zinc blend.—Pointe aux Mines, Lake Superior, district of Algoma, O.—Coll., W. E. Logan, 1846.—Cambrian, C. (3670.)
—	Little Pic River, Lake Superior, district of Thunder Bay, O.—Coll., R. Bell, 1875.—Huronian, B. (3551.)
--	Slate Falls, Slate River, district of Thunder Bay, O.—Cambrian, C 1. (3589.)
—	Prince's location, Spar Island, Lake Superior, district of Thunder Bay, O.—Coll., W. E. Logan, 1846.—Cambrian, C 1. (3552.)
—	Rat Portage, district of Rainy River, O.—Presented by F. Fooks, 1882.—Archean, A. B. (3550.)
—	British Columbia Copper Company's mine, South Similkameen River, east bank, six miles above the mouth of Whip-saw Creek, B.C. (5734.)
—	Málaspina mine, north-east side of Texada Island, B.C.—Coll., G. M. Dawson, 1885. (5278.)

Specimens of copper ore from the more important deposits are shown in upright wing-cases 6 and 7.

II.—MINERALS APPLICABLE TO CERTAIN CHEMICAL
MANUFACTURES.

There having been no available case in which the minerals coming under this heading could be brought together, they have, as indicated below, been unavoidably distributed over several of the other cases.

Apatite (*phosphate of lime*).

Specimens of apatite from some of the more important deposits are shown in upright wing-case 27.

Specimens illustrating the distribution of apatite are shown in table-cases 34, and 35 (in part).

Mineral associations of apatite are shown in table-cases 35 (in part) and 36 and in upright table-cases 27 and 28.

Arsenopyrite (*sulph-arsenide of iron*).

Specimens of mispickel are shown in upright wing-case 3.

Specimens illustrating the distribution of arsenical pyrites are shown in upright table-case 25.

Celestite (*sulphate of strontia*).

Specimens of this mineral are shown in upright wing-case 20.

Chromic iron ore (*chromate of iron*).

Specimens of chromite from some of the more important localities of its occurrence are shown in upright wing-case 3.

Specimens illustrating the distribution of this ore are shown in upright table-case 31.

Iron pyrites (*bisulphide of iron*).

Specimens of pyrite are shown in upright wing-case 3.

Specimens illustrating the distribution of this ore of sulphur are shown in upright table-case 31.

Magnesite (*carbonate of magnesia*).

Specimens of magnesite are shown in upright wing-case 20.

Manganese ores (*oxides of manganese*).

Specimens of these ores from the more important localities of their occurrence, are shown in upright wing-case 4.

Specimens illustrating the distribution of the same are shown in upright table-case 31.

Molybdenite (*sulphide of molybdenum*).

Specimens of molybdenum ore are shown in upright wing-case 3.

Specimens illustrating the distribution of molybdenite are shown in upright table-case 31.

Scheelite (*tungstate of lime*).

Specimens of this mineral are shown in table-case 67 and upright table-case 44.

III.—MINERALS USED IN THE PRODUCTION OF LIGHT AND HEAT.

COAL SERIES.

Peat.

- Peat.**—Island of Anticosti, Q.—Post-Tertiary, M 3. (Alluvium). (475.)
 — St. Hubert, Chambly county, Q.—Post-Tertiary, M 3. (Alluvium). (476.)
 — Lapigeonnière, Napierville, Chambly county, Q.—Post-Tertiary, M 3. (Alluvium). (477.)
 — (1). Coke made from peat No. 477 in the charcoal kilns at Lapigeonnière, and used in a smelting trial at the Hull Iron Mines, Ottawa county, Q. (477a.)
 — Ste. Brigide, Iberville county, Q.—Post-Tertiary, M 3. (Alluvium). (478.)
 — St. Dominique, Bagot county, Q.—Post-Tertiary, M 3. (Alluvium). (479.)

Upright
wing-case
8.

Lignitified Wood.

Lignitified wood.—Swan River, township 37, range XXVI, west of the initial meridian, Manitoba.—Coll., J. B. Tyrrell, 1887.—Cretaceous, K. (Lower portion of Niobrara-Benton shales). (5545.)

Lignite.

Lignite.—Missinaibi River, nine miles above the mouth of Opazatika (Poplar) River, district of Algoma, O.—Coll., R. Bell, 1877.—Post-Tertiary, M 1. (3466.)

COAL SERIES—Continued.

Lignite—Continued.

- Upright
wing-case
8.—
Continued.
- Lignite**—Coal Brook, below Long Portage, Missinaibi River, district of Algoma, O.—Coll., R. Bell, 1877.—Post Tertiary, M 1. (3467.)
- Swan River, Manitoba.—Coll., J. W. Spencer, 1874.—Cretaceous. (123.)
- Turtle Mountain, section 12, township 1, range XXIV., west of the initial meridian, Manitoba.—Coll., A. R. C. Selwyn, 1890.—Cretaceo-Tertiary, K-L. (Laramie). (2481.)
- Sutherland's mine, Souris River, one mile west of La Roche Percée, at the junction of Short Creek and Souris River, township 1, range V., west of the 2nd initial meridian, district of Assiniboia, N. W. T. Seam 4'.—Coll., A. R. C. Selwyn, 1878.—Cretaceo-Tertiary, K-L. (Fort Union Laramie). (2577.)
- Porcupine Creek, district of Assiniboia, N.W.T. Lower part of 18' seam.—Coll., G. M. Dawson, 1873.—Cretaceo-Tertiary, K. L. (Fort Union Laramie). (3504.)
- Souris River, at Traders Road crossing—sixty-two miles west of Wood End, district of Assiniboia, N.W.T.—Coll., G. M. Dawson, 1873.—Cretaceo-Tertiary, K. L. (Fort Union Laramie). (3505.)
- Souris River, near Wood End Dépôt, district of Assiniboia, N. W. T. Seam 7'.—Coll., G. M. Dawson, 1873.—Cretaceo-Tertiary, K. L. (Fort Union, Laramie). (3507.)
- Short Creek, Souris Valley, district of Assiniboia, N.W.T. Lowest and 2' 3" seam.—Coll., G. M. Dawson, 1873.—Cretaceo-Tertiary, K. L. (Fort Union Laramie). (3508.)
- Great Valley, district of Assiniboia, N.W.T. Seam 5'.—Coll., G. M. Dawson, 1873.—Cretaceo-Tertiary, K. L. (Fort Union Laramie). (3500.)
- Souris Valley, district of Assiniboia, N.W.T. Seam 1'.—Coll., G. M. Dawson, 1873.—Cretaceo-Tertiary, K. L. (Fort Union Laramie). (3501.)
- Souris Valley, district of Assiniboia, N.W.T. Seam 1' 5".—Coll., G. M. Dawson, 1873.—Cretaceo-Tertiary, K. L. (Fort Union Laramie). (3502.)
- Souris Valley, district of Assiniboia, N.W.T. Seam 3' 2".—Coll., G. M. Dawson, 1873.—Cretaceo-Tertiary, K. L. (Fort Union Laramie). (3503.)
- Dirt Hills, about one hundred miles south-west of Fort Qu'Appelle, district of Assiniboia, N.W.T.—Coll., R. Bell, 1873.—Cretaceo-Tertiary, K. L. (Fort Union Laramie)) (1018.)
- Dirt Hills, quarter way up East Bluff, district of Assiniboia, N.W.T. Seam 3'.—Coll., R. Bell, 1873.—Cretaceo-Tertiary, K. L. (Fort Union, Laramie). (1019.)
- Hay Flat, Wood Mountain, ten and a half miles east of Wood Mountain Post, district of Assiniboia, N.W.T. Seam 6'.—Coll., R. G. McConnell, 1884.—Cretaceo-Tertiary, K. L. (Laramie). (5113.)
- White Mud River, district of Assiniboia.—Coll., R. G. McConnell, 1883.—Tertiary, L 1. (Eocene). (4906, 4907.)
- Ross Coulée, Irvine, at Cypress trail crossing, district of Assiniboia, N.W.T.—Coll., R. G. McConnell, 1881.—Cretaceous, K. (base of Pierre). (923.)
- Half a milesouth of Irvine, district of Assiniboia, N.W.T.—Coll., R. G. McConnell, 1883.—Cretaceous, K. (base of Pierre). (4913.)

COAL SERIES—*Continued.***Lignite**—*Continued.*

- Lignite**—On branch of Willow Creek, six miles south-east from head of mountain, Cypress Hills, district of Assiniboia, N.W.T. Seam 4'.—Coll., R. G. McConnell, 1883.—Cretaceo-Tertiary, K-L. (Laramie). (4914.)
- From the Saskatchewan Coal Mining and Transportation Company's mine, South Saskatchewan River, north side, seven miles west of Medicine Hat, district of Assiniboia, N.W.T. Main seam—seam about 5' thick.—Presented by D. B. Woodworth, 1884.—Cretaceous, K. (Belly River series). (902.)
- South Saskatchewan River, ten miles below Medicine Hat, district of Assiniboia, N.W.T.—Coll., R. G. McConnell, 1883.—Cretaceous, K. (Belly River series). (4908.)
- Grassy Island, Bow River, district of Alberta, N.W.T. Main seam—seam 4' 6".—Coll., G. M. Dawson, 1881.—Cretaceous, K. (base of Pierre). (3445.)
- Grassy Island, Bow River, district of Alberta, N.W.T. Seam above main seam—seam 18".—Coll., G. M. Dawson, 1881.—Cretaceous, K. (3446.)
- Grassy Island, Bow River, district of Alberta, N.W.T. Seam below main seam—seam 8".—Coll., G. M. Dawson, 1881.—Cretaceous, K. (base of Pierre). (3447.)
- Blackfoot Crossing, Bow River, district of Alberta, N.W.T. Upper part of seam at old opening.—Coll., G. M. Dawson, 1881.—Cretaceo-Tertiary, K-L. (Laramie). (3448.)
- Blackfoot Crossing, Bow River, district of Alberta, N.W.T. Lower part of seam at old opening.—Coll., G. M. Dawson, 1881.—Cretaceo-Tertiary, K-L. (Laramie). (3449.)
- Blackfoot Crossing, Bow River, district of Alberta, N.W.T. "Conchoidal lignite" occurs in parts of seam at old opening.—Coll., G. M. Dawson, 1881.—Cretaceo-Tertiary, K-L. (Laramie). (3450.)
- Bow River, above Blackfoot Crossing, district of Alberta, N.W.T. Seam 6".—Coll., G. M. Dawson, 1881.—Cretaceo-Tertiary, K-L. (Laramie). (3451.)
- Horseshoe Bend, Bow River, district of Alberta, N.W.T. From upper part of seam—seam 4' 4".—Coll., G. M. Dawson, 1881.—Cretaceous, K. (top of Pierre). (3452.)
- Bow River, seam at the mouth of Highwood River, district of Alberta, N.W.T. Seam 3".—Coll., G. M. Dawson, 1881.—Cretaceo-Tertiary, K-L. (Laramie). (3454.)
- Bow River (from shaft on bank of Crowfoot Creek; about five miles from its entry into Bow River) section 7, township 22, range XX, west of the 4th initial meridian, district of Alberta, N.W.T. Depth of shaft to bottom of coal 135'—seam 9'.—Cretaceo-Tertiary, K-L. (Laramie). (5041.)
- Little Bow River, north of Black Spring Ridge, district of Alberta, N.W.T.—Coll., R. G. McConnell, 1881.—Cretaceo-Tertiary, K-L. (Laramie). (3474.)
- Little Bow River, district of Alberta, N.W.T. Seam 18".—Coll., G. M. Dawson, 1881.—Cretaceous, K. (Belly River series). (3475.)
- Scabby Butte, district of Alberta, N.W.T.—Coll., R. G. McConnell, 1881.—Cretaceo-Tertiary, K-L. (base of Laramie). (921.)
- St. Mary River, district of Alberta, N.W.T. Furtherest exposure of main seam.—Coll., G. M. Dawson, 1881.—Cretaceous, K. (base of Pierre). (3459.)

Upright
wing-case
8.—
Continued.

COAL SERIES—Continued.

Lignite—Continued.

- Upright wing-case
S. —
Continued.
- Lignite**—Rye Grass Flat, Old Man River, district of Alberta, N.W.T. Seam 2' to 3'.—Coll., T. C. Weston, 1883.—Cretaceo-Tertiary, K-L. (base of Laramie). (4903.)
- Near Bull Pound Creek, township 29, range XIII. west of the 4th initial meridian, district of Alberta, N.W.T. Seam 4' 6".—Coll., J. B. Tyrrell, 1884.—Cretaceo-Tertiary, K-L. (Laramie). (5092.)
- Red Deer River, ridge west of Bull Pound Creek, township 28, range XIV. west of the 4th initial meridian, district of Alberta, N.W.T. Seam 1' 6".—Coll., J. B. Tyrrell, 1884.—Cretaceo-Tertiary, K-L. (Laramie). (5087.)
- Near Bull Pound Creek, township 28, range XIV. west of the 4th initial meridian, district of Alberta, N.W.T. Seam 3'.—Coll., J. B. Tyrrell, 1884.—Cretaceo-Tertiary, K-L. (Laramie). (5088, 5089.)
- Township 36, range XV. west of the 4th initial meridian, district of Alberta, N.W.T. Seam 1' 8".—Coll., J. B. Tyrrell, 1884.—Cretaceo-Tertiary, K-L. (Laramie). (5095.)
- Township 36, range XV. west of the 4th initial meridian, district of Alberta, N.W.T. Seam 2'.—Coll., J. B. Tyrrell, 1884.—Cretaceo-Tertiary, K-L. (Laramie). (5102.)
- North of Sullivan Lake, township 37, range XV. west of the 4th initial meridian, district of Alberta, N.W.T. Seam 2' 7".—Coll., J. B. Tyrrell, 1884.—Cretaceo-Tertiary, K-L. (Laramie). (5096.)
- Battle River, section 36, township 40, range XVI. west of the 4th initial meridian, district of Alberta, N.W.T. Seam 5'.—Coll., J. B. Tyrrell, 1885.—Cretaceo-Tertiary, K-L. (Laramie). (5313.)
- Hand Hills, township 30, range XVII. west of the 4th initial meridian, district of Alberta, N.W.T. Seam 4' 6".—Coll., J. B. Tyrrell, 1884.—Cretaceo-Tertiary, K-L. (Laramie). (5093.)
- Battle River, section 33, township 42, range XVII. west of the 4th initial meridian, district of Alberta, N.W.T. Seam 3' 4".—Coll., J. B. Tyrrell, 1885.—Cretaceo-Tertiary, K-L. (Laramie). (5309.)
- "The Maples," Battle River, section 18, township 43, range XVII. west of the 4th initial meridian, district of Alberta, N.W.T. Seam 3' or more.—Coll., J. B. Tyrrell, 1885.—Cretaceo-Tertiary, K-L. (Laramie). (5310.)
- Meeting Creek (a tributary of Battle River), township 45, range XVII. west of the 4th initial meridian, district of Alberta, N.W.T. Seam 4' 6".—Coll., J. B. Tyrrell, 1884.—Cretaceo-Tertiary, K-L. (Laramie). (5104.)
- From seam near the mouth of Egg Creek, North Saskatchewan River, (opposite Victoria) township 58, range XVII. west of the 4th initial meridian, district of Alberta, N.W.T. Seam 13".—Coll., J. B. Tyrrell, 1886.—Cretaceous, K. (Pierre). (5482.)
- Red Deer River, township 29, range XX. west of the 4th initial meridian, district of Alberta, N.W.T. Seam 2'.—Coll., J. B. Tyrrell, 1884.—Cretaceo-Tertiary, K-L. (Laramie). (5091.)
- Devils Pine Creek, township 30, range XXII. west of the 4th initial meridian, district of Alberta, N.W.T. Seam 4' 6".—Coll., J. B. Tyrrell, 1884.—Cretaceo-Tertiary, K-L. (Laramie). (5094.)

COAL SERIES—Continued.

Lignite—Continued.

- Lignite**—Red Deer River, four miles below Tail Creek, township 37, range XXII. west of the 4th initial meridian, district of Alberta, N.W.T. 10' 6" coal in an 18' section—thickest seam 3'.—Coll., J. B. Tyrrell, 1884.—Cretaceo-Tertiary, K-L. (Laramie). (5097.)
- Red Deer River, township 38, range XXII. west of the 4th initial meridian, district of Alberta, N.W.T. Seam 2' 6".—Coll., J. B. Tyrrell, 1884.—Cretaceo-Tertiary, K-L. (Laramie). (5099.)
- Red Deer River, near the 10th correction line, range XXII. or XXIII. west of the 4th initial meridian, district of Alberta, N.W.T. Seam 1' 8" to 8".—Coll., J. B. Tyrrell, 1884.—Cretaceo-Tertiary, K-L. (Laramie). (5100.)
- Knee Hills Creek, north of Rosebud River, township 29, range XXIII. west of the 4th initial meridian, district of Alberta, N.W.T. Seam 4'.—Coll., J. B. Tyrrell, 1884.—Cretaceo-Tertiary, K-L. (Laramie). (5090.)
- Red Deer River, twelve miles above Tail Creek, township 38, range XXIV. west of the 4th initial meridian, district of Alberta, N.W.T. Seam 10' with 3' of interbedded sandstone and shale.—Coll., J. B. Tyrrell, 1884.—Cretaceo-Tertiary, K-L. (Laramie). (5098.)
- South of the North Saskatchewan River, on Vermilion River, two hundred yards west of the trail between Battleford and Edmonton, township 51, range XI. west of the 4th initial meridian, district of Alberta, N.W.T.—Presented by Sir Charles Tupper, Bart., 1881.—Cretaceous, K. (3547.)
- North Saskatchewan River, near Victoria, township 58, range XVIII. west of the 4th initial meridian, district of Alberta, N.W.T. Seam 1'.—Coll., J. B. Tyrrell, 1886.—Cretaceous, K. (5441.)
- Big Island seam, North Saskatchewan River, twelve miles above Edmonton, township 21, range XXV. west of the 4th initial meridian, district of Alberta, N.W.T. Seam 3' 8".—Coll., J. B. Tyrrell, 1886.—Cretaceo-Tertiary, K-L. (Laramie). (5483.)
- North Saskatchewan River, township 50, range XXVI. west of the 4th initial meridian, district of Alberta, N.W.T.—Coll., J. B. Tyrrell, 1886.—Cretaceo-Tertiary, K-L. (Laramie). (5439.)
- North Saskatchewan River, near the mouth of Conjuring Creek, township 51, range XXVI. west of the 4th initial meridian, district of Alberta, N.W.T. Seam 2' 8".—Coll., J. B. Tyrrell, 1886.—Cretaceo-Tertiary, K-L. (Laramie). (5436.)
- North Saskatchewan River, one mile below the ferry at Edmonton, district of Alberta, N.W.T.—Ross' seam—seam 4'.—Coll., J. B. Tyrrell, 1884.—Cretaceo-Tertiary, K-L. (Laramie). (5101.)
- Black Mud River, near Edmonton, district of Alberta, N.W.T. Seam said to be 3'.—Presented by Mr. Connors, per J. B. Tyrrell, 1884.—Cretaceo-Tertiary, K-L. (Laramie). (5103.)
- North Saskatchewan River, between Rocky Mountain House and Edmonton, district of Alberta, N.W.T.—Coll., A. R. C. Selwyn, 1873.—Cretaceo-Tertiary, K-L. (Laramie). (3465.)
- North Saskatchewan River, township 51, range II. west of the 5th initial meridian, district of Alberta, N.W.T.—Seam, 2' 10".—Coll., J. B. Tyrrell, 1886.—Cretaceo-Tertiary, K-L. (Laramie). (5438.)

Upright
wing-case
8.—
Continued.

COAL SERIES—*Continued.*Lignite—*Continued.*

- Upright wing-case
8.—
Continued.
- Lignite**—North Saskatchewan River, right bank, about forty miles below its confluence with the Brazeau River, district of Alberta, N.W.T. Seam 18' to 20' thick.—Coll., R. W. Ells, 1875.—Cretaceo-Tertiary, K-L. (Laramie). (927.)
- Athabasca River, about fifty-five miles above the site of old Fort Assiniboine, district of Alberta, N.W.T. Lower seam—seam 3'.—Coll., G. M. Dawson, 1879.—Cretaceo-Tertiary, K-L. (Laramie). (3461.)
- Smoky River, five miles below the mouth of Little Smoky River, district of Alberta, N.W.T. Seam 2½'.—Coll., G. M. Dawson, 1879.—Cretaceous, K. (Dunvegan group). (3468.)
- Burnt River, Peace River, district of Athabasca, N.W.T.—Coll., R. G. McConnell, 1879.—Cretaceous, K. or Cretaceo-Tertiary, K-L. (Laramie). (3462.)
- Mackenzie River, fifteen miles above the mouth of Bear River, N.W.T. Upper seam.—Coll., R. G. McConnell, 1888. (5724.)
- Mackenzie River, fifteen miles above the mouth of Bear River, N.W.T. Lower seam.—Coll., R. G. McConnell, 1888. (5725.)
- Mackenzie River, five miles above Bear River, N.W.T.—Coll., R. G. McConnell, 1888. (5726.)
- Rat River, Rocky Mountains, Lat. 67° 30', N.W.T.—Coll., R. G. McConnell, 1888. (5727.)
- Pine River, Coal Brook, about two and a half miles east of the Lower Forks, B.C. Seam 6'.—Coll., G. M. Dawson, 1879.—Cretaceous, K. (Dunvegan group). (4899.)
- At the junction of Nicola and Coldwater Rivers, B.C.—Coll., G. M. Dawson, 1877.—Tertiary, L 2. (Miocene). (920.)
- Fort George, Fraser River, B.C.—Coll., G. M. Dawson, 1875. (Loose). (1013.)
- Blackwater Depôt, Blackwater River, B.C.—Coll., G. M. Dawson, 1875.—Tertiary, L 2. (Miocene). Drift lignite. (3477.)
- Chin-oo-kun-dl Creek, Graham Island, north of Skidegate Inlet, Queen Charlotte Islands, B.C.—Coll., G. M. Dawson, 1878. Tertiary, L 2. (Miocene). (3476.)
- Skon-un Point, Graham Island, Queen Charlotte Islands, B.C.—Coll., G. M. Dawson, 1878.—Tertiary, L 2. (Miocene). (3480.)
- Ya-kan Point, Graham Island, Queen Charlotte Islands, B.C.—Coll., G. M. Dawson, 1878.—Tertiary, L 2. (Miocene). (3482.)

Lignitic Coal.

- Lignitic coal.**—Sheran's mine, Coal Banks, Belly River, district of Alberta, N.W.T. Main seam—seam averages 5' 4".—Coll., G. M. Dawson, 1881.—Cretaceous, K. (base of Pierre). (498.)
- Coal Banks, Belly River, district of Alberta, N.W.T. Above main seam—seam 8".—Coll., G. M. Dawson, 1881.—Cretaceous, K. (base of Pierre shales). (3470.)
- Belly River, five miles below the mouth of Little Bow River, district of Alberta, N.W.T. Seam 1' 6".—Coll., G. M. Dawson, 1881. Cretaceous, K. (Belly River series). (3471.)
- Belly River, about five miles below Coal Banks, district of Alberta, N.W.T. Main seam.—Coll., G. M. Dawson, 1881.—Cretaceous, K. (base of Pierre). (3472.)
- Belly River, seam at mouth of St. Mary River, district of Alberta, N.W.T.—Coll., G. M. Dawson, 1881.—Cretaceous, K. (base of Pierre): (3473.)

COAL SERIES—*Continued.*Lignitic Coal—*Continued.*

- Lignitic coal**—Near Indian Farm, south of Pincher Creek, Old Man River, township 5, range XXIX. west of the 4th initial meridian, district of Alberta, N.W.T. Seam 2'.—Coll., G. M. Dawson, 1881.—Cretaceo-Tertiary, K-L. (base of Laramie). (3455.)
- Pincher Creek (near the road crossing), Old Man River, district of Alberta, N.W.T.—Coll., T. C. Weston, 1873.—Cretaceo-Tertiary, K-L. (Laramie). (4912.)
- Red Deer River, near the outer edge of the Foot Hills, township 31, range VII. west of the 5th initial meridian, district of Alberta, N.W.T. Seam 9'.—Coll., J. B. Tyrrell, 1885.—Cretaceo-Tertiary, K-L. (Laramie). (5311.)
- North Saskatchewan River, at the mouth of the Clearwater River, township 39, range VII. west of the 5th initial meridian, district of Alberta, N.W.T. Seam 8½".—Coll., J. B. Tyrrell, 1885.—Cretaceo-Tertiary, K-L. (Laramie). (5312.)
- Rocky Mountain House seam, North Saskatchewan River, two miles below the mouth of Clearwater River, section 33, township 39, range VII. west of the 5th initial meridian, district of Alberta, N.W.T. Seam 2' or more.—Coll., J. B. Tyrrell, 1886.—Cretaceo-Tertiary, K-L. (Laramie). (5486.)
- Lewes River (a branch of the Yukon River), four and a half miles above Rink Rapid, N.W.T. Seam about 3'.—Coll., G. M. Dawson, 1887.—Cretaceo-Tertiary, K-L. (Laramie). (5548.)
- Wapita (Elk) River, Peace River district, N.W.T.—Coll., G. M. Dawson, 1879.—Cretaceo-Tertiary, K-L. (Laramie). (3469.)
- Coal Gully, Nicola River, B.C. Upper seam—seam 15' 4".—Coll., G. M. Dawson, 1877.—Tertiary, L 2. (Miocene). (3479.)

Upright
wing-case
8.—
Continued.

Coal of Cretaceous and Laramie age.

- Coal.**—St. Mary River, near the forty-ninth parallel, district of Alberta, N.W.T. Seam 1' 6".—Coll., G. M. Dawson, 1873. Cretaceo-Tertiary, K-L. (base of Laramie). (3509.)
- St. Mary River, district of Alberta, N.W.T.—Coll., G. M. Dawson, 1873.—Cretaceo-Tertiary, K-L. (Laramie ?) (3464.)
- Upper Belly River, twenty-five and a half miles above the mouth of Kootanie (Waterton) River, district of Alberta, N.W.T. Seam 1'.—Coll., R. G. McConnell, 1881.—Cretaceo-Tertiary, K-L. (base of Laramie). (4898.)
- Middle Fork, Old Man River, district of Alberta, N.W.T. Lower seam—seam about 3'.—Coll., G. M. Dawson, 1881.—Cretaceo-Tertiary, K-L. (Laramie). (3456.)
- Middle Fork, Old Man River, district of Alberta, N.W.T. Upper seam—seam 3'.—Coll., G. M. Dawson, 1881.—Cretaceo-Tertiary, K-L. (Laramie). (3458.)
- North-west branch of the North Fork of Old Man River, Rocky Mountains, district of Alberta, N.W.T. Seam 8' or more.—Coll., G. M. Dawson, 1883.—Cretaceous, K. (4897.)
- Oyster Creek, north-west branch of the North Fork of Old Man River, Rocky Mountains, district of Alberta, N.W.T.—Coll., G. M. Dawson, 1883.—Cretaceo-Tertiary, K-L. (Laramie). (5109.)
- South Fork of Old Man River, four miles above south branch, Rocky Mountains, district of Alberta, N.W.T. Seam 9' 9".—Coll., G. M. Dawson, 1883.—Cretaceous, K. (4902.)

COAL SERIES—*Continued.*Coal of Cretaceous and Laramie age—*Continued.*

Upright
wing-case
8.—
Continued.

- Coal—Coulée near Pincher Creek, one mile and a half from the trail-crossing, Old Man River, district of Alberta, N.W.T. Seam about 2' 6".—Coll., J. B. Tyrrell, 1883.—Cretaceo-Tertiary, K-L. (base of Laramie). (4896.)
- Mill Creek, about four miles above the mill, township 5, range I. west of the 5th initial meridian, district of Alberta, N.W.T. Seam 8' to 9' thick.—Coll., G. M. Dawson, 1881.—Cretaceo-Tertiary, K-L. (Laramie). (3481.)
- From seam near the headwaters of Mill and Pincher Creeks, section 10, township 5, range I. west of the 5th initial meridian, district of Alberta, N.W.T. Seam about 8'.—Presented by N. M. F. Scobie, 1888.—Cretaceo-Tertiary, K-L. (Laramie). (5445.)
- Coal Creek, Bow River, between Morley and Calgary, district of Alberta, N.W.T. Seam 1'.—Coll., G. M. Dawson, 1881.—Cretaceo-Tertiary, K-L. (base of Laramie). (3453.)
- Bow River coal mine (Vaughan's mine), south side of Bow River, a quarter of a mile south-east from mouth of Coal Creek, section 13, township 26, range V. and section 18, township 26, range IV. west of the 4th initial meridian, district of Alberta, N.W.T. Seam 10' 10", with three partings; total thickness of coal, 7' 7".—Coll., J. B. Tyrrell, 1886.—Cretaceo-Tertiary, K-L. (base of Laramie). (5474.)
- Red Deer River, Rocky Mountains, district of Alberta, N.W.T.—Coll., G. M. Dawson, 1884.—Cretaceous, K. (5108.)
- North Kootanie Pass, Rocky Mountains, B.C.—Coll., G. M. Dawson, 1883.—Cretaceous, K. (4895.)
- Entrance to North Kootanie Pass, Rocky Mountains, N.W.T. Seam 1' 6".—Coll., G. M. Dawson, 1883.—Cretaceous, K. (4904.)
- South Fork of Sheep Creek, section 2, township 20, range III. west of the 5th initial meridian, district of Alberta, N.W.T. (3639.)
- Crow Nest Pass, four miles west of the Gap, Rocky Mountains, district of Alberta, N.W.T. Middle seam—seam 2' 10".—Coll., G. M. Dawson, 1883.—Cretaceous, K. (4905.)
- Second crossing, Marten Creek, Crow Nest Pass, Rocky Mountains, B.C.—Coll., G. M. Dawson, 1883.—Cretaceous, K. (Kootanie series). (4893, 4894.)
- Coal Creek, Crow Nest Pass, Rocky Mountains, B.C. Seam 7'.—Coll., A. R. C. Selwyn, 1891.—Cretaceous, K. (Kootanie series). (5448.)
- Marten Creek, Crow Nest Pass, Rocky Mountains, B.C. Seam 6'.—Coll., A. R. C. Selwyn, 1891.—Cretaceous, K. (Kootanie series). (5451.)
- "Jubilee" seam, second crossing, Marten Creek, Crow Nest Pass, Rocky Mountains, B.C. Seam about 30' clear coal.—Presented by the Crow Nest Mining Company, 1886.—Cretaceous, K. (Kootanie series). (5484.)
- "Peter" seam, second crossing, Marten Creek, Crow Nest Pass, Rocky Mountains, B.C. Seam about 14' clear coal.—Presented by the Crow Nest Coal Mining Company, 1886.—Cretaceous, K. (Kootanie series). (965.)
- Elk River, Crow Nest Pass, Rocky Mountains, B.C. Seam 15'.—Coll., A. R. C. Selwyn, 1891.—Cretaceous, K. (Kootanie series). (5577.)

Upright
wing-case
9.

COAL SERIES—*Continued.***Coal of Cretaceous and Laramie age—***Continued.*

- Coal—Indian Reserve, Coal Creek, North Thompson River, B.C.—Coll., G. M. Dawson, 1877.—Tertiary, L 2. (Miocene). (1212.)
- Union mine, Comox, Vancouver Island, B.C.—Presented by the Union Mining Company, 1875.—Cretaceous, K. (496.)
- Baynes Sound mine, Comox, Vancouver Island, B.C. Upper seam—seam 5' 10".—Coll., G. M. Dawson, 1878.—Cretaceous, K. (918.)
- Baynes Sound mine, Comox, Vancouver Island, B.C.—From end of adit on upper seam.—Coll., G. M. Dawson, 1878.—Cretaceous, K. (3495.)
- Baynes Sound mine, Comox, Vancouver Island, B.C.—Lower seam—seam about 7' thick.—Coll., G. M. Dawson, 1878.—Cretaceous, K. (644.)
- Wellington mine, two and a half miles north-west of Nanaimo, and three miles west of 'Departure Bay, Vancouver Island, B.C. "Newcastle" seam—seam 6' to 10'.—Presented by Dunsmuir, Diggle and Company, 1875.—Cretaceous, K. (3497.)
- Newcastle Island, near Nanaimo, Vancouver Island, B.C.—Lower seam—seam 4'.—Coll., J. Richardson, 1872.—Cretaceous, K. (3498.)
- From between Beaver Harbour and Alert Bay, two and a half miles south-east of Fort Rupert, Vancouver Island, B.C. Seam 6".—Coll., G. M. Dawson, 1878.—Cretaceous, K. (3492.)
- From between Beaver Harbour and Alert Bay, four miles south-east of Fort Rupert, Vancouver Island, B.C. Seam 4".—Coll., G. M. Dawson, 1878.—Cretaceous, K. (3493.)
- Ki-uk River, near the mouth, about three miles south of Beaver Harbour, Vancouver Island, B.C.—Seam 6".—Coll., G. M. Dawson, 1885.—Cretaceous, K. (5475.)
- On small stream, three-quarters of a mile south of the mouth of Klik-si-wi River, north-east coast of Vancouver Island, B.C. Seam 1' 4".—Coll., G. M. Dawson, 1885.—Cretaceous, K. (5476.)
- About two miles and a quarter up the Klik-si-wi River, north-east coast of Vancouver Island, B.C. Seam 2' to 3".—Coll., G. M. Dawson, 1885.—Cretaceous, K. (5481.)
- Suquash, north-east coast of Vancouver Island, B.C. Upper seam—seam 1' to 2".—Coll., G. M. Dawson, 1885.—Cretaceous, K. (966.)
- Coal Harbour, Quatsino Sound, Vancouver Island, B.C.—Coll., G. M. Dawson, 1878.—Cretaceous, K. (Drift in inlet). (3483.)
- Coal Harbour seam, Coal Harbour, Quatsino Sound, Vancouver Island, B.C.—Coll., G. M. Dawson, 1878.—Cretaceous, K. (3485.)
- From shaft sunk on two to three feet seam, north of Coal Harbour, Quatsino Sound, Vancouver Island, B.C.—Coll., G. M. Dawson, 1885.—Cretaceous, K. (5479.)
- Rupert Arm, north side of Quatsino Sound, two miles and a quarter north-east of Hankin Point, Vancouver Island, B.C.—Coll., G. M. Dawson, 1878.—Cretaceous, K. (3488.)
- Forward Inlet, Quatsino Sound, Vancouver Island, B.C. From upper part of seam.—Coll., G. M. Dawson, 1878.—Cretaceous, K. (3490.)
- Forward Inlet, Quatsino Sound, Vancouver Island, B.C. Best sample from heap at excavation.—Coll., G. M. Dawson, 1878.—Cretaceous, K. (3491.)

Upright
wing-case
9.—
Continued.

COAL SERIES—*Continued.*Coal of Cretaceous and Laramie age—*Continued.*

- Upright
wing-case
9.—
Continued.
- Coal—From a seam near Ya-koun River, which flows into Masset Inlet—about twelve miles to the north of Skidegate Inlet, Queen Charlotte Islands, B.C. Seam said to be 18'.—Presented by W. A. Robertson, 1886.—Cretaceous, K. (968.)
- South side of Skidegate Inlet, Queen Charlotte Islands, B.C.—Coll., G. M. Dawson, 1878.—Cretaceous, K. (3489.)

Anthracitic coal.

- Anthracitic coal.—Cascade River, two and three-quarter miles from its confluence with the Bow, Bow River Pass, Rocky Mountains, section 8, township 26, range XI. west of the 5th initial meridian, district of Alberta, N.W.T. Seam about 1' 8".—Coll., E. Coste, 1883.—Cretaceous, K. (Kootanie series.) (5488.)

Semi-anthracite.

- Semi-anthracite.—Cascade River, near Bow River, about a quarter of a mile from the line of the C.P.R., south-east corner of section 8, township 26, range XI. west of the 5th initial meridian, district of Alberta, N.W.T. Upper thick seam, near Hughes (now Stewart's) mine. Seam 3' 10".—Coll., G. M. Dawson, 1885.—Cretaceous, K. (Kootanie series.) (5111.)
- Cascade mine (Moberly's), Cascade River, Bow River Pass, Rocky Mountains, district of Alberta, N.W.T. Seam about 4'—Coll., A. R. C. Selwyn, 1883.—Cretaceous, K. (5045.)
- Canmore mine, one mile from Canmore station, C.P.R., on the south side of Bow River, section 31, township 34, range X. west of the 5th initial meridian, district of Alberta, N.W.T. Coll., G. M. Dawson, 1891.—Cretaceous, K. (5677.)
- Bow River, right bank, one mile and a half from Canmore station, C.P.R., section 29, township 24, range X. west of the 5th initial meridian, district of Alberta, N.W.T. Seam about 1'.—Coll., G. M. Dawson, 1885.—Cretaceous, K. (5110.)
- Marsh's mine, about one mile and a half south of Bow River, at Gap siding, Rocky Mountains, district of Alberta, N.W.T. Upper seam—seam about 12'.—Coll., R. G. McConnell, 1886.—Cretaceous, K. (5477.)
- From the same locality as No. 5477.—Lower seam—seam 10'.—Coll., R. G. McConnell, 1886.—Cretaceous, K. (5478.)

Anthracite.

- Anthracite.—Robinson Creek Tunnel, Cowgitz, Queen Charlotte Islands, B.C.—Coll., G. M. Dawson, 1878.—Cretaceous, K. (3487.)
- Cowgitz, Skidegate Inlet, southern end of Graham Island, Queen Charlotte Islands, B.C.—Coll., J. Richardson, 1872.—Cretaceous, K. (1023.)
- Hooper Creek or Nicholson's Tunnel, Cowgitz, Queen Charlotte Islands, B.C.—Coll., J. Richardson, 1872.—Cretaceous, K. (3496.)

COAL SERIES—Continued.

Anthracite—Continued.

Carbonaceous shale.—From the so-called anthracite mine, Lepreau, Charlotte county, N.B.—Coll., R. Chalmers, 1884.—Carboniferous, G 1. (In drawer under case.) (3619.)

Upright
wing-case
9.—
Continued.

The following, which are shown in connection with the lignite, are also placed in this case.

Material resulting from the combustion of seam of lignite, from foot of the slope in which the seam of lignite is exposed, North Saskatchewan River, section 35, township 50, range IV. west of the 5th initial meridian, district of Alberta, N.W.T. Carries traces of gold.—Coll., J. B. Tyrrell, 1886.—Cretaceo-Tertiary, K-L. (Laramie.) (5420.)

Material resulting from combustion of seam of lignite, from seam. Haney's first claim, North Saskatchewan River, section 35, township 50, range IV. west of the 5th initial meridian, district of Alberta, N.W.T. Carries traces of gold.—Coll., J. B. Tyrrell, 1886.—Cretaceo-Tertiary, K.L. (Laramie.) (5421.)

Arenaceous clay-shale overlying seam of lignite. Haney's second claim, North Saskatchewan River, section 35, township 50, range IV. west of the 5th initial meridian, district of Alberta, N.W.T. Carries traces of gold.—Coll., J. B. Tyrrell, 1886.—Cretaceo-Tertiary, K.L. (Laramie.) (5422.)

Ashes resulting from the combustion of seam of lignite, from seam. Haney's second claim, North Saskatchewan River, section 35, township 50, range IV. west of the 5th initial meridian, district of Alberta, N.W.T. Carries traces of gold.—Coll., J. B. Tyrrell, 1886.—Cretaceo-Tertiary, K.L. (Laramie.) (5423.)

Shaly parting in seam (eight feet from top) of lignite, near Haney's first claim, North Saskatchewan River, section 35, township 50, range IV. west of the 5th initial meridian, district of Alberta, N.W.T. Carries traces of gold.—Coll., J. B. Tyrrell, 1886.—Cretaceo-Tertiary, K.L. (Laramie.) (5424.)

Portion of erect trunk of fossil tree found standing over seam of lignitic coal (No. 5486) at Rocky Mountain House, North Saskatchewan River, district of Alberta, N.W.T. The exterior two inches of the trunk is converted into lignitic coal—whilst the interior woody tissue has been almost entirely replaced by siliceous and argillaceous material.—Coll., J. B. Tyrrell, 1886.—Cretaceo-Tertiary. K.L. (Laramie.) (5437.)

Coal of the Carboniferous System.

Coal.—Albion Mines, west side of East River, Pictou county, N.S. Main seam 3' 6" from top. (527.)

— Albion Mines, Main seam, 6' from top. (530.)

— do do 7' do (525.)

— do do 8' do (529.)

— do do 15' do (526.)

— do bottom of Main seam. (528.)

— do Deep seam, 3' from top. (532.)

— do do first bench. (533.)

— do bottom of Deep seam. (524.)

— Acadia Mines, west side of East River, Pictou county, N.S.—McGregor seam. (505.)

Upright
wing-case
10.

COAL SERIES—Continued.

Coal of the Carboniferous System—Continued.

Upright wing-case 10.— Continued.	Coal—	Acadia Colliery, Acadia seam, French's slope, below fire-clay. (518.)
	— do	do do first bench, west slope. (516.)
	— do	do do third do do (519.)
	— do	do do fourth do do (522.)
	-- do	do do fifth do do (520.)
	— do	bottom of Acadia seam. (523.)
	—	Drummond Colliery, west side of East River, Pictou county, N.S.— Acadia seam, Fall-coal bench. (540.)
	—	Drummond Colliery, Acadia seam, first bench, 10' from pavement. (535.)
	--	Drummond Colliery, Acadia seam, second bench, 8' from pavement. (537.)
	--	Drummond Colliery, Acadia seam, Stone-coal, between second and third bench, 6' from pavement. (536.)
	—	Drummond Colliery, Acadia seam, third bench, 2' from pavement. (538.)
	—	Drummond Colliery, Acadia seam, Coarse-coal bench, bottom of seam. (542.)
	—	Vale Colliery, east side of East River, Pictou county, N.S.—McBean 8' seam, first bench. (507.)
	—	Vale Colliery, McBean 8' seam, second bench. (506.)
	--	do do bottom do (512.)
	---	Marsh Colliery, east side of East River, Pictou county, N.S.—George Mackay seam. (515.)
	—	Montreal and New Glasgow Coal Company's mine, on left bank of Potter's Brook, Pictou, county, N.S.—Lawson's seam, Lawson's slope, Good-coal bench. (508.)
	—	Montreal and New Glasgow Coal Company's mine, Lawson's seam, Lawson's slope, Mineral-charcoal bench. (509.)
	—	Montreal and New Glasgow Coal Company's mine, Lawson's seam, Lawson's slope, Coarse-coal bench. (510.)
		Joggins mine, Cumberland county, N.S. (488.)
		Springhill Mines, Cumberland county, N.S.—Black seam. (493.)
	—	do Anderson's slope, west level. (504.)
	—	Lorway mine, Cape Breton county, N.S.—Lorway seam. (487.)
	—	Sydney Mines do Main seam. (489.)
	—	Block House mine do Block House seam. (490.)
	—	Schooner Pond mine do Ross seam. (491.)
	—	Lingan mine do Main seam. (492.)
	--	Little Glace Bay Mines do Harbour seam. (497.)
	-	Victoria mine do Lyle seam. (501.)
	-	Caledonia mine do Phelan seam. (503.)
	-	Gardiner mine do Lorway seam. (544.)
	—	Emery mine do Ross or Emery seam. (1021.)
	--	Kelly Cove, Cape Breton county, N.S.—4' seam. (1022.)

BITUMEN SERIES

Upright wall-case 11.	Albertite.—	Albert Mines, Albert county, N.B.—Coll., L. W. Bailey, 1875.— Carboniferous, G 1 (1016.)
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BITUMEN SERIES—*Continued.*

- Bituminous sand-rock.**—Athabasca River (at its confluence with the Clear-water River—and beyond), N.W.T.—Coll., R. Bell, 1882. (909.) Upright wall-case 11.—*Continued.*
- (1) The quartz sand of “Bituminous sand-rock” as left on removal of the bituminous matter. (909a.)
- Bituminous shale.**—Dorchester, Westmoreland county, N.B.—Coll., L. W. Bailey, 1875.—Carboniferous, G 1. (5258.)
- Mineral tar** (maltha).—White Mud River, two hundred and fifty miles above Fort Vermilion, Peace River, N.W.T. (4964.)
- Tar Island, Peace River, twenty-seven miles below Smoky River, N.W.T.—Presented by W. Ogilvie, 1885. (4965.)
- North shore of Great Slave Lake, about thirty miles east of outlet, N.W.T.—Coll., R. G. McConnell, 1887. (4705.)
- Athabasca River (about twelve miles below its confluence with the Little Red River—and beyond), N.W.T.—Coll., A. S. Cochran, 1881. (1017.)
- Trap**, with cavities containing more or less altered petroleum, Tar Point, township of Douglas, Gaspé county, Q. (889.)
- Oil-coal.**—Andrew Patrick’s mine, McLellan’s Brook, Pictou county, N.S.—Coll., E. Hartley, 1868.—Carboniferous, G. (511.)
- From a pit on the old brick-kiln road, Montreal and Pictou area, Pictou county, N.S.—Coll., E. Hartley, 1868.—Carboniferous, G. (840.)
- (Stellarite).—Acadia Mines, Pictou county, N.S.—Coll., W. E. Logan, 1868.—Carboniferous G. (851.)
- Oil shale.**—Haliburton pit, Marsh Brook, Pictou county, N.S.—Coll., W. E. Logan, 1868.—Carboniferous G. (845.)
- Petroleum-bearing fossiliferous limestone.**—Lot 13, range II. of Bertie, Wel-land county, O.—Devonian, F 1. (711.)
- Crude petroleum.**—Lake Ainslie, Inverness county, Cape Breton, N.S.—Presented by W. Harrington. (723.)
- St. Joseph, Dorchester, Westmoreland county, N.B.—Coll., H. P. Brumell, 1891.—Carboniferous, G 1. (910.)
- Beliveau mine, Beliveau, Westmoreland county, N.B.—Coll., W. McOuat, 1873.—Carboniferous, G 1. (2443.)
- Vicinity of Gaspé Basin, Gaspé county, Q.—Coll., T. C. Weston, 1865.—Devonian, F 1 (717.)
- From a branch of Silver Brook, about eighteen miles from Gaspé Basin, Gaspé county, Q.—Coll., A. R. C. Selwyn, 1889. (987.)
- Walker’s well “No. 2,” Marshfield, south-west corner of lot 11, range VI. of Colchester, Essex county, O.—Coll., H. P. Brumell, 1891.—Silurian, E. (655.)
- Tilsonburg, Dereham, Oxford county, O.—Devonian, F 1. (712.)
- Miles’ and Watkins’ rock well, Tilsonburg, Dereham, Oxford county, O.—Devonian, F 1. (715.)
- Kelly’s well, Enniskillen, Lambton county, O. (714.)
- Miller’s surface well do do (716.)
- Piker’s well do do (718.)
- Williams’ well do do (722.)
- 33° Baumé.—Petrolia, Enniskillen, Lambton county, O.—Devonian, F 1. (5000.)
- Products (Nos. 5000a to 5000cc) obtained therefrom, presented by Isaac Waterman, London, O.
- (1) Benzine (petroleum spirit). (5000a.)

BITUMEN SERIES—*Continued.*

Upright
wall-case
11.—
Continued.

Crude petroleum—Products, etc.—*Continued.*

- (2) Illuminating oil 150° fire test. (5000b.)
 - (3) do 200° do . (5000c.)
 - (4) do (mineral sperm oil) 300° fire test. (5000d.)
 - (5) Oil for painters use. (5000e.)
 - (6) "Bloomless" oil, for mixing with animal oils. (5000f.)
 - (7) Illuminating oil (hand-lamp oil). (5000g.)
 - (8) Tar, 20° Baumé. (5000h.)
 - (9) Coke (soft). (5000i.)
 - (10) Unpressed paraffin oil, 29° Baumé. (5000j.)
 - (11) Pressed do 25° do (5000k.)
 - (12) do do 26° do (5000l.)
 - (13) do do 27° do (5000m.)
 - (14) do do 28° do (5000n.)
 - (15) Lubricating oil (engine oil). (5000o.)
 - (16) do (heavy engine oil). (5000p.)
 - (17) do (wooden-machinery oil) 26° Baumé. (5000q.)
 - (18) Lubricating oil (spindle oil) 26° Baume. (5000r.)
 - (19) Heavy paraffin oils, mixed for machinery oil. (5000s.)
 - (20) Steam-filtered petroleum, for lubricating purposes. (5000t.)
 - (21) Lubricating oil (coach oil) 28° Baumé. (5000u.)
 - (22) Oil for tanner's use. (5000v.)
 - (23) Flour paraffin. (5000w.)
 - (24) Crude paraffin wax. (5000x.)
 - (25) Axle grease (yellow). (5000y.)
 - (26) do (black). (5000z.)
 - (27) Candles. (5000aa.)
 - (28) Paraffin wax. (5000bb.)
 - (29) Coke (hard) final residuum of distillation. (5000cc.)
- Cape Smith, Grand Manitoulin Island, Lake Huron, O.—Cambro-Silurian, D 2. (713.)
- South Kootanie Pass, Rocky Mountains, district of Alberta, N.W.T.—Coll., A. R. C. Selwyn, 1891. (5057.)
- South Kootanie Pass, Rocky Mountains, B.C.—Coll., A. R. C. Selwyn, 1891. (5058.)
- Sage Creek, Flathead River, East Kootanie district, B.C.—Presented by Lieut.-Colonel Baker, M.P.P., 1890. (4686.)
- Oil distilled from the shale of Kettle Point, Bosanquet, Lambton county, O. (719.)

IV. MINERALS (AND MATERIAL MANUFACTURED FROM CERTAIN OF THE SAME) APPLICABLE TO COMMON AND DECORATIVE CONSTRUCTION.

ROOFING SLATES.

Upright
wing-case
12.

- Roofing slate.—Lot 4, range I. of Kingsey, Drummond county, Q.—Coll., J. Richardson, 1859.—Cambrian, C. (545.)
- Rankin Hill slate quarry, lot 25, range V. of Acton, Bagot county, Q.—Coll., T. C. Weston, 1875.—Cambrian, C 3. (552.)

ROOFING SLATES—*Continued.*

- Roofing slate**—Lot 2, range V. of Orford, Sherbrooke county, Q.—Coll., J. Richardson.—Cambro-Silurian, D. (554.)
- St. Sylvestre, St. Giles de Beauvillage, Lotbinière county, Q.—Coll., A. R. C. Selwyn.—Cambrian, C. (2504.)
- New Rockland slate quarry, lot 23, range IV. of Melbourne, Richmond county, Q.—Presented by Charles Drummond, Montreal, 1875.—Cambrian, C. (2505.)
- (1.) Slab of planed slate. (2505a.)
- Melbourne slate quarry, lot 22, range VI. of Melbourne, Richmond county, Q.—Presented by B. Walton, 1875.—Cambrian, C. (547.)
- Steele's quarry, lot 6, range XV. of Cleveland, Richmond county, Q.—Coll., T. C. Weston.—Cambrian C. (546.)
- Bedard's quarry, lot 5, range XV. of Cleveland, Richmond county, Q.—Coll., R. W. Ells, 1889.—Cambrian, C. (550.)
- School slates, and ornamental slate panel** manufactured by the Danville School Slate Company at Gansonville, from slate found on lot 7, range IV. of Shipton, Richmond county, Q.—Coll., T. C. Weston, 1875.—Cambrian C. (548 and 549.)
- Roofing slate.**—Lot 5, range VI. of Madoc, Hastings county, O.—Coll., C. W. Willimott, 1885.—Archean, A.B. (2578.)
- Slate flooring-tiles.**—Lot 15, range IX. of Garthby, Wolfe county, Q.—Coll., J. Richardson.—Cambrian, C. (2580.)
- Tile-stones.**—Anse à la Vieille, Port Daniel, Bonaventure county, Q.—Coll., W. E. Logan, 1843.—Cambrian, C 3. (825.)

Upright
wing-case
12.—
Continued.

BUILDING STONES.

Limestones.

- Limestone.**—Parrsborough, Cumberland county, N.S.—Coll., S. Barlow, 1875.—Carboniferous, G. 1. Six-inch cube, dressed. (1172.)
- River Mistassini (about thirty miles from Lake St. John and ten miles above steam navigation), Chicoutimi county, Q.—Presented by J. G. Scott, 1890.—Laurentian, A. Dressed block, 6½ by 4 by 2½ inches. (571.)
- Pointe aux Trembles, Portneuf county, Q.—Coll., J. Richardson, 1875.—Cambro-Silurian, D 2. Six-inch cube, dressed. (1166.)
- Deschambault, Portneuf county, Q.—Cambro-Silurian, D 2. Five and a half inch cube, dressed. (1167.)
- St. Alban quarry, La Chevrotière, Portneuf county, Q.—Presented by C. Dussault, 1885.—Cambro-Silurian, D 2. Six-inch cube, dressed. (5127.)
- Lot 12, range VI. of Dudswell, Wolfe county, Q.—Silurian, E 3. Six-inch cube, dressed. (534.)
- Dudswell, Wolfe county, Q.—Silurian, E 3. Six-inch cube dressed. (559.)
- Lot 15, range V. of Dudswell, Wolfe county, Q.—Coll., C. W. Willimott, 1885.—Silurian, E 3. Six-inch cube, dressed. (5119.)
- Joliette (Industry village), Joliette county, Q.—Coll., W. E. Logan, 1852.—Cambro-Silurian, D 1. Six-inch cube, dressed. (560.)
- St. Lin, L'Assomption county, Q.—Coll., J. Richardson, 1852.—Cambro-Silurian, D 1. Six-inch cube, dressed. (564.)
- Pointe Clair, Jacques Cartier county, Q.—Presented by R. Forsyth, 1875.—Cambro-Silurian, D 1. Six-inch cube, dressed. (1164.)
- From the same locality as the preceding (No. 1164) but differing in colour. (1165.)

Upright
wing-case
13.

BUILDING STONES—Continued.

Limestones—Continued.

- Upright
wing-case
13.—
Continued.
- Limestone.**—Montreal, Hochelaga county, Q.—Cambro-Silurian, D 1. Six-inch cube, dressed. (557.)
- Montreal, Hochelaga county, Q.—Cambro-Silurian, D 2. Six-inch cube, dressed. (563.)
- Caughnawaga, Laprairie county, Q.—Cambro-Silurian, D 1. Five and a half-inch cube, dressed. (568.)
- “Bernier” quarry, about five miles from St. John’s, St. John’s county, Q. Six-inch cube, dressed. (502.)
- Brunet’s quarry, St. Armand, Missisquoi county, Q.—Cambrian, C 3. Six-inch cube, dressed. (1161.)
- St. Dominique, Soulanges county, Q.—Cambro-Silurian, D 1. Five and a half-inch cube, dressed. (567.)
- McGregor’s quarry, Lachute, Argenteuil county, Q.—Coll., B. J. Harrington, 1875.—Laurentian, A. Six-inch cube, dressed. (1154.)
- Grenville, about half a mile from the Calumet mills, Argenteuil county, Q.—Coll., T. C. Weston, 1875.—Laurentian, A. Six-inch cube, dressed. (1158.)
- Mahoney’s quarry, Hull, Ottawa county, Q.—Coll., C. W. Willimott, 1885.—Cambro-Silurian, D 2. Six-inch cube, dressed. (5065.)
- Wright’s quarry, Hull, Ottawa county, Q.—Coll., C. W. Willimott, 1885.—Cambro-Silurian, D 2. Six-inch cube, dressed. (5066.)
- Lot 14, range VIII. of Hull, Ottawa county, Q.—Coll., C. W. Willimott, 1884.—Laurentian, A. Six-inch cube, dressed. (4920.)
- Portage du Fort, Litchfield, Pontiac county, Q.—Coll., C. W. Willimott, 1885.—Laurentian, A. Six-inch cube, dressed. (5078.)
- From the same locality as the preceding (No. 5078) but differing in colour. (5105.)
- East Hawkesbury, Prescott county, O.—Cambro-Silurian, D 1. Six-inch cube, dressed. (566.)
- “Rockville” quarries, Gloucester, Carleton county, O.—Coll., T. C. Weston, 1875.—Cambro-Silurian, D 1. Six-inch cube, dressed. (561.)
- Lot 7, range IV. of Ramsay, Lanark county, O.—N. Lavallée, Carleton Place.—Laurentian, A. Six-inch cube, dressed. (500.)
- Lots 9 and 10, range VI. of Ramsay, Lanark county, O.—Coll., C. W. Willimott, 1883.—Laurentian, A. Six-inch cube, dressed. (5716.)
- Lot 24, range VIII. of Lanark, Lanark county, O.—Coll., H. G. Vennor, 1875.—Laurentian, A. Six-inch cube, dressed. (1155.)
- Lanark village, Lanark county, O.—Coll., H. G. Vennor, 1875.—Laurentian, A. Six-inch cube, dressed. (1156.)
- Hogg’s quarry, east half of lot 21, range X. of Lanark, Lanark county, O.—Coll., C. W. Willimott, 1885.—Laurentian, A. Six-inch cube, dressed. (5076.)
- Lot 11, range III. of McNab, Renfrew county, O.—E. Harrington, 1875.—Cambrian, C 2. Six-inch cube, dressed. (1157.)
- Lot 4, range XIV. of McNab, Renfrew county, O.—Laurentian, A. Dressed block, 8 by 8 by 6 inches. (5081.)
- East half of lot 24, range IV. of Ross, Renfrew county, O.—Coll., C. W. Willimott, 1885.—Laurentian, A. Six-inch cube, dressed. (5077.)

BUILDING STONES—*Continued.***Limestones**—*Continued.*

- Limestone**—From the so-called "Renfrew Granite Quarry," lot 11, range II. of Horton, Renfrew county, O.—Coll., C. W. Willimott, 1885.—Laurentian, A. Six-inch cube, dressed. (5079.) Upright wing-case 13.—*Continued.*
- High Falls, Madawaska River, lot 13, range III. of Blythfield, Renfrew county, O.—Laurentian, A. Dressed block, $11\frac{1}{2}$ by 12 by 4 inches. (5080.)
- Kilpatrick's quarry, Kingston, Frontenac county, O.—Coll., C. W. Willimott, 1885.—Cambro-Silurian, D 1. Six-inch cube, dressed. (4935.)
- "Wolfe Island" quarry, Long or Wolfe Island, Kingston, Frontenac county, O.—Presented by S. J. Kilpatrick, 1888.—Cambro-Silurian, D 1. Six-inch cube, dressed. (5573.)
- Lot 28, range IX. of Barrie, Frontenac county, O.—Coll., C. W. Willimott, 1885.—Laurentian, A. Six-inch cube, dressed. (5223.)
- Lot 27, range IX. of Barrie, Frontenac county, O.—Coll., C. W. Willimott, 1885.—Laurentian, A. Six-inch cube, dressed. (5224.)
- From the same locality as the preceding (No. 5224) but differing in colour. (5226.)
- Lot 16, range XI. of Marmora, Hastings county, O.—Coll., H. G. Vennor, 1866.—Laurentian, A. Six-inch cube, dressed. (570.) Upright wall-case 14.
- Madoc, Hastings county, O.—Coll., H. G. Vennor.—Laurentian, A. Five and a half-inch cube, dressed. (572.)
- Bridgewater, Elzevir, Hastings county, O.—Coll., H. G. Vennor, 1866.—Laurentian, A. Six-inch cube, dressed. (573.)
- Feeney's quarry, Madoc, Hastings county, O.—Coll., C. W. Willimott, 1885.—Laurentian, A. Six-inch cube, dressed. (5181.)
- Downey's Rapids, Hog Lake, Huntingdon, Hastings county, O.—Coll., C. W. Willimott, 1884.—Cambro-Silurian, D 1. Six-inch cube, dressed. (630.)
- Point Anne quarry, near Belleville, Thurlow, Hastings county, O.—Coll., C. W. Willimott, 1884.—Cambro-Silurian, D 2. Six-inch cube, dressed. (4934.)
- St. Mary's, Perth county, O.—Coll., T. C. Weston, 1875.—Devonian, F 1. Six-inch cube, dressed. (1162.)
- Narrows of Lake Manitoba, Manitoba.—Presented by James Young, 1886.—Cambro-Silurian, D. Dressed block, 10 by 7 by $3\frac{1}{2}$ inches. (5252.)
- Mount Mark, near Horne Lake, Vancouver Island, B.C.—Coll., J. Richardson, 1875.—Carboniferous, G? Dressed block, $10\frac{1}{2}$ by $4\frac{1}{2}$ by 4 inches. (2570.)
- From the same locality as the preceding (No. 2570) but differing in colour. Dressed block, 11 by $8\frac{1}{2}$ by 4 inches. (2571.)
- Texada Island, Strait of Georgia, B.C.—Coll., J. Richardson, 1875.—Carboniferous, G? Dressed block, 5 by 5 by $4\frac{1}{2}$ inches. (541.)
- From the same locality as the preceding (No. 541) but differing in colour. Six-inch cube, dressed. (1173.)
- From the same locality as the two preceding (Nos. 541 and 1173) but differing in colour.—Coll., G. M. Dawson, 1887. Six inch cube, dressed. (5187.)
- Metlah-Catlah Bay, B.C. Dressed, block, $7\frac{1}{2}$ by $5\frac{1}{2}$ by 2 inches. (5082.)
- conglomerate.—Point Levis, Levis county, Q.—Cambro-Silurian, D 1. Six-inch cube, dressed. (5365.)

BUILDING STONES—*Continued.***Limestones**—*Continued.*

- Upright
wall-case
14.—
Continued.
- Limestone**—Dolomitic.—Selkirk, Manitoba.—Cambro-Silurian, D. Dressed block, 6 by 6 by $5\frac{1}{4}$ inches. (5044.)
- Serpentine.—Lot 1, range I. of the augmentation of Grenville, Argenteuil county, Q.—Coll., C. W. Willimott, 1884.—Laurentian, A. Six-inch cube, dressed. (5246.)
- Serpentine.—Grenville, Argenteuil county, Q.—Coll., T. C. Weston, 1875.—Laurentian, A. Six-inch cube, dressed. (1151.)
- Serpentine.—Lot 3, range VI. of Pakenham, Lanark county, O.—Coll., H. G. Vennor, 1875.—Laurentian, A. Six-inch cube, dressed. (1152.)
- Serpentine.—Lot 25, range VI. of Ramsay, Lanark county, O.—Coll., H. G. Vennor.—Laurentian, A. Six-inch cube, dressed. (1159.)

Dolomites.

- Dolomite.**—Calumet Island, Pontiac county, Q.—Coll., C. W. Willimott, 1884.—Laurentian, A. Dressed block, 5 by $4\frac{3}{4}$ by $4\frac{1}{2}$ inches. (4922.)
- Lot 10, range IV. of Aldfield, Pontiac county, Q.—Presented by R. H. G. Chapman, 1885.—Laurentian, A. Six-inch cube, dressed. (5130.)
- Bell's Corners, Nepean, Carleton county, O.—Coll., T. C. Weston, 1875.—Cambrian, C 2. Six-inch cube, dressed. (1170.)
- "Railway" quarry, lot 12, range XII. of Beckwith, Lanark county, O.—Coll., C. W. Willimott, 1885.—Cambrian, C 2. Six-inch cube, dressed. (5067.)
- Lot 9, range XIV. of McNab, Renfrew county, O.—E. Harrington, 1875.—Cambrian, C 2. Five-inch cube, dressed. (1169.)
- Cobocok, Bexley, Victoria county, O.—Cambro-Silurian, D. Dressed block, $7\frac{1}{4}$ by 4 by $3\frac{3}{4}$ inches. (3745.)
- Gibson's quarry, Grimsby, Lincoln county, O.—Coll., T. C. Weston, 1875.—Silurian, E 3. Six-inch cube, dressed. (1163.)
- Ancaster, Wentworth county, O.—Silurian, E 3. Six-inch cube, dressed. (575.)
- Hancock quarry, Jolly Cut, Hamilton Mountain, Barton, Wentworth county, O.—Coll., C. W. Willimott, 1884.—Silurian, E 3. Dressed block, 6 by $5\frac{1}{4}$ by $5\frac{1}{4}$ inches. (4933.)
- Baxter's quarry, lots 10 and 11, Jones' tract, Cayuga, Haldimand county, O.—Coll., T. C. Weston, 1875.—Silurian E 6. Six-inch cube, dressed. (587.)
- Strange's quarry, Rockwood, Eramosa, Wellington county, O.—Coll., T. C. Weston, 1875.—Silurian, E 3. Six-inch cube, dressed. (590.)
- Owen Sound, Grey county, O.—Coll., R. Bell, 1861.—Silurian, E 3. Six-inch cube, dressed. (1176.)
- Pelee Island, Lake Erie, Essex county, O.—Presented by the Toronto Stone Company, 1887.—Devonian, F 1. Six-inch cube, dressed. (5388.)
- Rapids of the Red River, above Stone Fort, Manitoba.—Coll., R. W. Ells, 1875.—Cambro-Silurian, D. Six-inch cube, dressed. (1168.)
- Stony Mountain, Manitoba.—Coll., R. W. Ells, 1875.—Cambro-Silurian, D. Six-inch cube, dressed. (1175.)

BUILDING STONES—*Continued.***Sandstones.**

- Sandstone.**—McPherson's quarry, Eight-mile Brook, West River, Pictou county, N.S.—Presented by John McPherson, 1885.—Carboniferous, G 1. Dressed block, 6 by 5 by 5 inches. (5221.) Upright wall-case 14.—
- From the same locality as the preceding (No. 5221) but differing in colour. (5222.) *Continued.*
- Johnson's Brook, Glenville, Cumberland county, N.S.—Coll., W. McQuat, 1875.—Carboniferous, G 2. Six-inch cube, dressed. (1177.)
- Amherst, Cumberland county, N.S.—Presented by Rhodes, Curry & Co., 1886.—Carboniferous, G 4. (5235.)
- Rockland, Dorchester, Westmoreland county, N.B.—Coll., L. W. Bailey, 1875.—Carboniferous, G 2. Six-inch cube, dressed. (631.)
- Budreau village, Dorchester, Westmoreland county, N.B.—Coll., L. W. Bailey, 1875.—Carboniferous, G 2. Six-inch cube, dressed. (1178.)
- "Bay View" quarry, Mary's Point, Shepody Bay, Albert county, N.B.—Coll., L. W. Bailey, 1875.—Carboniferous, G 2. Six-inch cube, dressed. (1179.)
- "French Fort" quarry, Miramichi River, Newcastle, Northumberland county, N.B.—Coll., L. W. Bailey, 1875.—Carboniferous, G 2. Six-inch cube, dressed. (5574.)
- Cap Rouge, Portneuf county, Q.—Coll., T. C. Weston, 1875.—Cambrian, C 3. Six-inch cube, dressed. (597.)
- Beauharnois, Beauharnois county, Q.—Coll., J. Richardson.—Cambrian, C 1. Five and a-half inch cube, dressed. (574.)
- From the same locality as the preceding (No. 574) but differing in colour. (582.)
- Vicinity of Hawkesbury, Prescott county, O.—Cambro-Silurian, D 1. Six inch. (577.)
- Bell's Corners, Nepean, Carleton county, O.—Coll., T. C. Weston, 1875.—Cambro-Silurian, D 1. Six-inch cube, dressed, (595.)
- Bishop's quarry, lot 6, range II. of Nepean, Carleton county, O.—Coll., T. C. Weston, 1875.—Cambrian, C 1. (596.)
- Portland, Bastard, Leeds county, O.—Presented by W. J. Morris, 1882.—Cambrian, C 1. Six-inch cube, dressed. (4923.)
- McMullin's quarry, south side of Otty Lake, range VII. of North Elmsley, Lanark county, O.—Presented by W. J. Morris, 1882.—Cambrian, C 1. Six-inch cube, dressed. (4924.) Upright wall-case 15.
- Ramsay, Lanark county, O.—Cambrian, C 1. Six-inch cube, dressed. (579.)
- Pembroke, Renfrew county, O.—Cambro-Silurian, D 1. Dressed block, 7 by 4 by 3½ inches. (3746.)
- Rankin's quarry, Pembroke, Renfrew county, O.—Cambro-Silurian, D 1. Dressed block, 6 by 6 by 5¼ inches. (576.)
- Georgetown, lot 22, range VII. of Esquesing, Halton county, O.—Coll., T. C. Weston, 1875.—Silurian, E 1. Six-inch cube, dressed. (581.)
- Farquhar & Booth's quarry, lot 21, range V. of Esquesing, Halton county, O.—Coll., T. C. Weston, 1875.—Silurian, E 1. Dressed block, 6 by 6 by 5½ inches. (598.)
- De Cew's quarry, lot 48, range I. of Oneida, Haldimand county, O.—W. De Cew, 1861.—Devonian, F 1. Five and a half-inch cube, dressed. (578.)

BUILDING STONES—*Continued.***Sandstones**—*Continued.*

- Upright wall-case
15.—
Continued.
- Sandstone**—Mono, Dufferin county, O.—Silurian, E 1. Five and a half-inch cube, dressed. (580.)
- Dundas, Wentworth county, O.—Silurian, E 1. Five and a half-inch cube, dressed. (583.)
- “Canada Brown Stone” quarry, Forks of the Credit, Caledon, Peel county, O.—Coll., C. W. Willimott, 1884.—Silurian, E 1. Six-inch cube, dressed. (4930.)
- From the same locality as the preceding (No. 4930) but differing in colour. (4931.)
- “Credit Forks” stone quarry, Forks of the Credit, Caledon, Peel county, O.—Coll., C. W. Willimott, 1884.—Silurian, E 1. Six-inch cube, dressed. (4932.)
- From the same locality as the preceding (No. 4932) but differing in colour. Dressed block, 21 by 5 by 4 inches. (5061.)
- Forks of the Credit, Caledon, Peel county, O.—Presented by the Department of Public Works, Ottawa, 1885.—Silurian, E 1. Six-inch cube, dressed. (5231.)
- Isle Verte, Nipigon Bay, Lake Superior, O.—Coll., A. R. C. Selwyn, 1883.—Cambrian C 1. Six-inch cube, dressed. (635.)
- Newcastle Island, B.C.—Coll., J. Richardson, 1872.—Cretaceous, K. Five-inch cube, dressed. (599.)
- Nanaimo, Vancouver Island, B.C.—Coll., J. Richardson, 1872.—Cretaceous, K. (600.)
- Admiralty or Salt Spring Island, B.C.—Coll., G. M. Dawson, 1885.—Cretaceous, K. (5366.)
- Haddington Island, Broughton Strait, B.C.—Coll., G. M. Dawson, 1885.—Cretaceous, K. Dressed block, 6 by 6 by 5½ inches. (5367.)
- Ledge Point, Port McNeil, Vancouver Island, B.C.—Coll., G. M. Dawson, 1885.—Cretaceous, K. Six-inch cube, dressed. (5368.)
- Cap à l’Aigle, Murray Bay, Charlevoix county, Q.—Pitton & Co., Quebec, 1875.—Cambrian, C 1. Dressed block, 12 by 8 by 4½ inches—for paving stone. (636.)
- From the same locality as the preceding (No. 636). Dressed block 9 by 7½ by 3 inches—for curbstone. (637.)
- “Point Levis” quarry, Point Levis, Levis county, Q.—Pitton & Co., Quebec, 1875.—Cambrian, C 3. Dressed block, 9 by 7½ by 4 inches—for curbstone. (703.)
- From the same locality as the preceding (No. 703). Dressed block, 12 by 7½ by 4 inches—for paving stone. (704.)
- From the same locality as the two preceding (Nos. 703 and 704). Dressed block, 8½ by 8½ by 4 inches—for paving stone. (705.)

Granites.

- Granite.**—Barnston, Stanstead county, Q. Six-inch cube, dressed. (569.)
- St. Joseph, Beauce county, Q. Six-inch cube, dressed. (1182.)
- “Nelson Island” quarry, Jervis Inlet, B.C.—Coll., G. M. Dawson, 1885. Six-inch cube, dressed. (5236.)
- Port Harvey, Cracroft Island, Johnstone Strait, B.C.—Coll., G. M. Dawson, 1885. Dressed block, 6¼ by 5½ by 5¼ inches. (5237.)

BUILDING STONES—*Continued.***Granites**—*Continued.*

- Granite**—Island in Otter Cove, Chatham Point, Discovery Passage, Vancouver Island, B.C.—Coll., G. M. Dawson, 1885. Dressed block, 6 by 6 by 5½ inches. (5238.) Upright wall-case 15.—*Continued.*
- “North Bend” quarry, Fraser River, B.C.—Coll., G. M. Dawson, 1885. Six-inch cube, dressed. (5380.)
- Quarry near Cantilever Bridge, Fraser River, B.C.—Coll., G. M. Dawson, 1885. Six-inch cube, dressed. (5381.)

Syenites.

- Syenite.**—Grenville, Argenteuil county, Q.—Laurentian, A. Six-inch cube, dressed. (585.)
- From the same locality as the preceding but differing in colour. (586.)
- Lot 2, range V. of Grenville, Argenteuil county, Q.—Laurentian, A. Six-inch cube, dressed. (592.)
- Grenville, Argenteuil county, Q.—Laurentian, A. Six-inch cube, dressed. (1184.)
- Barrow (Forsyth's) Island, River St. Lawrence, opposite Gananoque, Leeds county, O.—Laurentian, A. Six-inch cube, dressed. (594.)
- Victoria, Vancouver Island, B.C.—Coll., J. Richardson, 1875. Six-inch cube, dressed. (1181.)

Gneisses.

- Gneiss.**—St. Charles' reservoir, Jeune Lorette, St. Gabriel, Quebec county, Q.—Six-inch cube, dressed. (584.)
- Lot 1, range III. of Grenville, Argenteuil county, Q.—Laurentian, A. Six-inch cube, dressed. (591.)
- Lot 2, range V. of Grenville, Argenteuil county, Q.—Laurentian, A. Six-inch cube, dressed. (1180.)

Labradorite rock, trap rock and serpentine.

- Labradorite rock.**—Chicoutimi village, Chicoutimi county, Q.—Laurentian, A. Six-inch tube, dressed. (941.)
- Trap.**—Achigan River, St. Esprit, L'Assomption county, Q. Six-inch cube, dressed. (589.)
- Serpentine.**—From the extreme north end of Reindeer Lake, N.W.T.—Presented by Horacé Belanger, J.P., Norway House, 1889.—Archean, A. B. Six-inch cube, dressed. (1130.)

MARBLES.

These, which are shown in the form of polished slabs, are affixed to the ends of the upright wing-cases and in the recesses of the windows.

Limestone Marbles.

- Limestone.**—Purplish-grey with bluish-grey, whitish and greyish-black inclusions, and dull yellowish network and veinings.—Lot 22, range VII. of Dudswell, Wolfe county, Q.—Cambrian, C 1. Polished slab, 29 by 15 inches. (675.)
- Light brownish ash-grey, with dark grey and white spots; fossiliferous.—L'Orignal, Prescott county, O.—Cambro-Silurian, D 1. Polished slab, 29 by 14½ inches. (677.)
 - Dark brownish-black, mottled.—St. Armand, Missisquoi county, Q.—Cambrian, C 3. Polished slab, 12 by 12 inches. (725.)
 - White, veined with pale green.—St. Armand, Missisquoi county, Q.—Cambrian, C 3. Polished slab, 18 by 12 inches. (727.)
 - Dove-grey, marked with white.—St. Armand, Missisquoi county, Q.—Cambrian, C 3. Polished slab, 18 by 12 inches. (767.)
 - Bluish-grey and bluish-ash, mottled, with brownish-yellow veinings.—St. Armand, Missisquoi county, Q.—Cambrian, C 3. Polished slab, 18 by 12 inches. (782.)
 - Dark grey, with clove-brown spots—fossiliferous.—Montreal, Hochelega county, Q.—Cambro-Silurian, D 2. Polished slab, 29 by 12 inches. (784.)
 - Ash-grey.—Gloucester, Carleton county, O.—Cambro-Silurian, D 1. Polished slab, 18 by 12 inches. (797.)
 - Pale bluish-white, flecked with black.—Lot 11, range II. of Horton, Renfrew county, O.—Laurentian, A. Polished slab, 18 by 12 inches. (806.)
 - Brownish-black, with dark brownish-black clouding.—Cornwall, Stormont county, O.—Cambro-Silurian, D 1. Polished slab, 18 by 12 inches. (808.)
 - Dark brownish-grey, with white markings.—Cornwall, Stormont county, O.—Cambro-Silurian, D 1. Polished slab, 18 by 12 inches. (809.)
 - Light greyish-white, speckled.—Elzevir, Hastings county, O.—Laurentian, A. Polished slab, 27 by 15 inches. (814.)
 - Light brownish ash-grey, with dark grey and white spots; fossiliferous.—L'Orignal, Prescott county, O.—Cambro-Silurian, D 1. Polished slab, 14½ by 11 inches. (870.)
 - Dark brownish-black.—Pointe Claire, Jacques-Cartier county, Q.—Cambro-Silurian, D 1. Polished slab, 18 by 12 inches. (871.)
 - Brownish ash-grey.—Esquimaux Island, seigniory of Mingan, Q.—Cambro-Silurian, D 1. Polished slab, 18 by 12 inches. (872.)
 - Dark grey; fossiliferous.—Caughnawaga, Laprairie county, Q.—Cambro-Silurian, D 1. Polished slab, 18 by 12 inches. (873.)
 - Ashen grey, with pinkish and red spots; fossiliferous.—Caughnawaga, Laprairie county, Q.—Cambro-Silurian, D 1. Polished slab, 18 by 12 inches. (875.)
 - White, veined with pale green.—St. Armand, Missisquoi county, Q.—Cambrian, C 3. Polished slab, 15½ by 11 inches. (876.)
 - Greyish-black, with brownish-black clouding.—Mille Roches, Cornwall, Stormont county, O.—Cambro-Silurian, D 1. Polished slab, 16 by 11 inches. (877.)

MARBLES—*Continued.*Limestone Marbles—*Continued.*

- Limestone**—Light greenish-white to almost white, with dark greenish and brownish spots.—Grenville, Argenteuil county, Q.—Laurentian, A. Polished slab, 13½ by 11 inches. (878.)
- Bluish-grey and bluish-ash, mottled, with brownish-yellow veinings.—St. Armand, Missisquoi county, Q.—Cambrian, C 3. Polished slab, 15 by 11 inches. (879.)
- Light purplish-white, light grey and bluish-grey, mottled, with brownish-yellow veinings.—Lot 22, range VII. of Dudswell, Wolfe county, Q.—Silurian, E 3. Polished slab, 18 by 12 inches. (880.)
- Very pale brownish-yellow, with brownish-yellow and light to dark bluish-grey veinings.—Lot 22, range VII. of Dudswell, Wolfe county, Q.—Silurian, E 3. Polished slab, 18 by 12 inches. (881.)
- Light, dark grey, greyish-black, and light and dark brownish-yellow, mottled.—Lot 22, range VII. of Dudswell, Wolfe county, Q.—Silurian, E 3. Polished slab, 18 by 12 inches. (882.)
- Greyish-black, with brownish-black clouding and white markings; fossiliferous.—Lot 22, range VII. of Dudswell, Wolfe county, Q.—Silurian, E 3. Polished slab, 18 by 12 inches. (883.)
- White to faint greenish-white, with brown and blackish specks.—Lot 22, range VII. of Dudswell, Wolfe county, Q.—Silurian, E 3. Polished slab, 18 by 12 inches. (884.)
- Dark grey to light greyish-black, with white markings; fossiliferous.—Montreal, Hochelaga county, Q.—Cambro-Silurian, D. Polished slab, 29 by 18 inches. (886.)
- Very pale brownish-yellow, with brownish-yellow and light to dark bluish-grey veinings.—Lot 22, range VII. of Dudswell, Wolfe county, Q.—Silurian, E 3. Polished slab, 47 by 25½ inches. (887.)
- Greyish-white.—Marble Mountain, Bras d'Or Lake, Cape Breton, N.S.—Pre-Cambrian, A. B. Polished slab, 18½ by 18½ inches. (888.)
- Whitish to bluish-grey, with light and dark bluish-grey markings.—Arnprior, Renfrew county, O.—Laurentian, A. Polished slab, 47 by 24 inches. (891.)
- Light purplish-brown, bluish-grey light to dark, with brownish-yellow and whitish veinings.—Lot 22, range VII. of Dudswell, Wolfe county, Q.—Silurian, E 3. Polished slab, 30 by 6½ inches. (894.)
- Sepia brown, with brownish-black clouding.—Pakenham, Lanark county, O.—Cambro-Silurian, D 1. Polished slab, 29 by 8¾ inches. (895.)
- Dark grey and greyish-black, mottled; fossiliferous.—Lot 12, range VI. of Dudswell, Wolfe county, Q.—Silurian, E 3. Polished slab, 18 by 15 inches. (897.)
- Light bluish-grey and bluish-ash, mottled, with light and dark grey veinings.—From near Beaver Cove, north-east coast of Vancouver Island, B.C.—Coll., G. M. Dawson, 1885. Polished slab, 18 by 12 inches. (898.)
- Light greyish-white and bluish-ash, clouded, with bluish-grey and brownish veins.—Texada Island, Strait of Georgia, B.C.—Carboniferous, G? Polished slab, 18 by 12 inches. (901.)
- Light and dark bluish-ash, clouded, with greyish-black spots and veinings.—Texada Island, Strait of Georgia, B.C.—Carboniferous, G? Polished slab, 18 by 12 inches. (903.)

MARBLES—*Continued.***Limestone Marbles**—*Continued.*

- Limestone**—Dark greyish-black, with light greyish, brownish-yellow and white markings, and bluish-ash fossils.—Dudswell, Wolfe county, Q.—Silurian, E 3. Polished slab, 24 by 14 inches. (904.)
- Brownish-grey, with white and pale brownish fossils.—Departure Bay, Nanaimo, Vancouver Island, B.C.—Coll., G. M. Dawson, 1885.—Polished slab, 18 by 10½ inches. (905.)
- Light greyish-white.—Elzevir, Hastings county, O.—Laurentian, A. Polished slab, 18 by 12 inches. (906.)
- Purplish-grey, bluish-grey, whitish, and light and dark greyish-black blotches and inclusions, and white and brownish-yellow veinings.—Lot 22, range VII. of Dudswell, Wolfe county, Q.—Silurian, E 3. Polished slab, 29 by 14 inches. (908.)
- White.—St. Armand, Missisquoi county, Q.—Cambrian, C 3. Polished slab, 29 by 15 inches. (912.)
- Light purplish-brown, bluish-grey light to dark, with brownish-yellow and whitish veinings.—Lot 22, range VII. of Dudswell, Wolfe county, Q.—Silurian, E 3. Polished slab, 29 by 15 inches. (916.)
- Light greyish-white, speckled.—Elzevir, Hastings county, O.—Laurentian, A. Polished slab, 29 by 14 inches. (917.)
- Whitish calcite, flecked and spotted with brownish-yellow serpentine.—Grenville, Argenteuil county, Q.—Laurentian, A. Polished slab, 18 by 12 inches. (919.)
- Light bluish to purplish-grey calcite, with light and dark yellowish and olive-green serpentine.—Lot 1, range I. of the Augmentation of Grenville, Argenteuil county, Q.—Laurentian, A.—Coll., C. W. Willimott, 1885. Polished slab, 18 by 12 inches. (922.)
- Light greyish-white calcite, with clouding of pale greenish and olive-green serpentine.—Grenville, Argenteuil county, Q.—Laurentian, A. Polished slab, 18 by 12 inches. (924.)
- Light greenish-white to almost white, with dark greenish and brownish spots.—Grenville, Argenteuil county, Q.—Laurentian, A. Polished slab, 18 by 12 inches. (925.)
- Light grey to light purplish-grey calcite, and olive-green serpentine.—Grenville, Argenteuil county, Q.—Laurentian, A. Polished slab, 18 by 12 inches. (926.)
- Brownish-black, with dark brownish-black markings; fossiliferous.—Cornwall, Stormont county, O.—Cambro-Silurian, D 1. Polished slab, 29 by 17 inches. (929.)
- Greyish-black, with brownish-black clouding.—Mille Roches, Cornwall, Stormont county, O.—Cambro-Silurian, D 1. Polished slab, 32 by 18 inches. (930.)
- Light brownish ash-grey, with whitish and brownish inclusions; fossiliferous.—Large Island, Seigneurie of Mingan, Q.—Cambro-Silurian, D 1. Polished slab, 18 by 12 inches. (936.)
- Dark brownish-grey, with brownish-black clouding.—Pointe Claire, Jacques Cartier county, Q.—Cambro-Silurian, D 1. Polished slab, 29 by 16½ inches. (954.)
- Dark brownish-grey.—Cornwall, Stormont county, O.—Cambro-Silurian, D 1. Polished slab, 17 by 10½ inches. (955.)
- Light reddish-brown, with greenish-grey and white veins and markings.—Lot 22, range VII. of Shipton, Richmond county, Q.—Cambrian, C 1. Polished slab, 18 by 12 inches. (961.)
- Light and dark purplish-red, white, and light green.—Lot 22, range VII. of Shipton, Richmond county, Q.—Cambrian, C 1. Polished slab, 18 by 12 inches. (962.)

MARBLES—Continued.

Limestone Marbles—Continued.

- Limestone**—White, light purplish-grey, purplish and light green.—Lot 22, range VII. of Shipton, Richmond county, Q.—Cambrian, C 1. Polished slab, 18 by 12 inches. (963.)
- Very pale brownish-yellow, with brownish-yellow, and light to dark bluish-grey veinings.—Lot 22, range VII. of Dudswell, Wolfe county, Q.—Silurian, E 3. Polished slab, 14½ by 11 inches. (976.)
- Dark brownish-grey, with brownish-black clouding.—Pointe Claire, Jacques Cartier county, Q.—Cambro-Silurian, D 1. Polished slab, 12 by 11¾ inches. (989.)
- Light grey to light purplish-grey calcite, and olive-green serpentine.—Grenville, Argenteuil county, Q.—Laurentian, A. Polished slab, 14 by 10¾ inches. (991.)
- Light reddish-brown, with greenish-grey and white veins.—Lot 3, range I. of Kingsey, Drummond county, Q.—Cambrian, C. Polished slab, 18 by 12 inches. (992.)
- White (in parts purplish) calcite, spotted with pale olive-green serpentine.—Lot 14, range IX. of Hull, Ottawa county, Q.—Coll., C. W. Willimott, 1885—Laurentian, A. Polished slab, 18 by 12 inches. (993.)
- Light to dark reddish-brown, with veins of white calcite.—Lot 3, range I. of Kingsey, Drummond county, Q.—Cambrian, C. Polished slab, 18 by 12 inches. (996.)
- Dove-grey, marked with white.—St. Armand, Missisquoi county, Q.—Cambrian, C 3. Polished slab, 29 by 10 inches. (997.)
- Dark brownish-grey, with brownish-black clouding.—Pointe Claire, Jacques Cartier county, Q.—Cambro-Silurian, D 1. Polished slab, 18 by 12 inches. (1144.)
- Pinkish-white, penetrated by crystals of light greenish-grey tremolite.—Lot 28, range IX. of Barrie, Frontenac county, O.—Laurentian, A. Polished slab, 18 by 12 inches. (1148.)
- Light to dark reddish-brown, with veins of white calcite.—Lot 1, range VIII. of Durham, Drummond county, Q.—Cambrian, C. Polished slab, 18 by 12 inches. (1160.)
- Dark grey, with dark brownish-grey clouding and some greyish spots; fossiliferous.—Terrebonne, Terrebonne county, Q.—Cambro-Silurian, D 1. Polished slab, 18 by 12 inches. (1185.)
- Light to dark brownish-red, with white veinings.—St. Joseph, Beauce county, Q.—Cambrian, C. Weathered slab, 29 by 15½ inches. (4863.)
- Ash-grey, with dark grey and white spots, and network of light greenish-grey; fossiliferous.—L'Orignal, Prescott county, O.—Cambro-Silurian, D 1. Weathered slab, 29 by 14½ inches. (4864.)
- White, with light and dark bluish-grey markings (banded structure).—East half of lot 21, range X. of Lanark, Lanark county, O.—Coll., C. W. Willimott, 1885.—Laurentian, A. Polished slab, 18 by 7 inches. (4876.)
- Dark brownish-black, mottled.—St. Armand, Missisquoi county, Q.—Cambrian, C 3. Polished slab, 18 by 12 inches. (4868.)
- Dove-grey.—St. Dominique, Soulanges county, Q.—Cambro-Silurian, D 1. Polished slab, 18 by 12 inches. (4869.)
- Ash-grey, with dark grey and white spots, and network of light greenish-grey; fossiliferous.—L'Orignal, Prescott county, O.—Cambro-Silurian, D 1. Polished slab, 18 by 12 inches. (4870.)

MARBLES—*Continued.***Limestone Marbles**—*Continued.*

- Limestone**—Brownish-black, with dark brownish-black clouding.—Pointe Claire, Jacques Cartier county, Q.—Cambro-Silurian, D 1. Polished slab, 18 by 12 inches. (4871.)
- Ashen grey, with pinkish and red spots; fossiliferous.—Caughnawaga, Laprairie county, Q.—Cambro-Silurian, D 1. Polished slab, 29 by 17½ inches. (4872.)
- White, and light bluish-grey, with dark bluish-grey markings.—East half of lot 21, range X. of Lanark, Lanark county, O.—Coll., C. W. Willimott, 1885.—Laurentian, A. Polished slab, 18 by 12 inches. (4875.)
- Light to dark brownish-red, with white veinings.—St. Joseph, Beauce county, Q.—Cambrian, C 1. Polished slab, 25 by 16 inches. (4877.)
- Dark greyish-black, with light greyish, brownish-yellow and white markings.—Dudswell, Wolfe county, Q.—Presented by the Dudswell Marble and Lime Company, 1886.—Silurian, E 3. Polished slab, 23 by 9 inches. (4878.)
- Light bluish-grey, with dark grey veins, wavy structure.—Lot 1, range VIII. of Madoc, Hastings county, O.—Coll., C. W. Willimott, 1885.—Laurentian, A. (4879.)
- Light to dark brownish-red, with white veinings.—St. Joseph, Beauce county, Q.—Cambrian, C 1. Polished slab, 18 by 12 inches. (4880.)
- Coralline.—Bluish-grey, with light and dark greyish-black markings, and brownish-yellow veinings.—Dudswell, Wolfe county, Q.—Silurian, E 3. Polished slab, 18 by 12 inches. (4881.)
- Light to dark bluish-grey, with veinings of white calcite.—Dudswell, Wolfe county, Q.—Presented by the Dudswell Marble and Lime Company.—Silurian, E 3. Polished slab, 21 by 8½ inches. (4882.)
- Pale and dark salmon-red.—Ironsides, Hull, Ottawa county, Q.—Coll., C. W. Willimott, 1885.—Laurentian, A. Polished slab, 24½ by 12 inches. (4961.)
- Light brown to brownish-red, with reddish-brown, white, and greyish inclusions; fossiliferous.—St. Lin, L'Assomption county, Q.—Cambro-Silurian, D 1. Polished slab, 56 by 24½ inches. (4962.)

Serpentine Marbles.

- Serpentine.**—Light and dark green.—Lot 21, range VI. of Melbourne, Richmond county, Q.—Cambrian, C 1. Polished slab, 29 by 12 inches. (783.)
- Light and dark green, brecciated.—Lot 6, range XIII. of Orford, Sherbrooke county, Q.—Cambrian C 1. Polished slab, 29 by 15½ inches. (810.)
- Light and dark green, with veins of white calcite (Verd Antique).—Lot 22, range VI. of Melbourne, Richmond county, Q.—Cambrian, C 1. Polished slab, 29 by 18 inches. (885.)
- Light and dark green, brecciated, with inclusions of white calcite (Verd Antique).—Lot 12, range VIII. of Orford, Sherbrooke county, Q.—Cambrian, C 1. Polished slab, 40 by 19 inches. (890.)
- Light and dark green, brecciated, with veins of white calcite.—Lot 6, range XIII. of Orford, Sherbrooke county, Q.—Cambrian, C 1. Polished slab, 47 by 25½ inches. (893.)

MARBLES—*Continued.***Serpentine Marbles**—*Continued.*

- Serpentine**—Light and dark green, with light greenish-grey markings.—Lot 20, range X. of Melbourne, Richmond county, Q.—Cambrian, C 1. Polished slab, 18 by 12 inches. (907.)
- Light purplish-grey, light green, and light and dark greenish-grey.—Lot 20, range V. of Melbourne, Richmond county, Q.—Cambrian, C 1. Polished slab, 18 by 12 inches. (913.)
- Light and dark green.—Lot 21, range VI. of Melbourne, Richmond county, Q.—Cambrian, C 1. Polished slab, 18 by 12 inches. (931.)
- Light and dark green and greenish-grey to grey, brecciated.—Lot 15, range XVIII. of Orford, Sherbrooke county, Q.—Cambrian, C 1. Polished slab, 18 by 12 inches. (932.)
- Light and dark green, with network and veinings of light greyish-green.—Lot 6, range XIII. of Orford, Sherbrooke county, Q.—Cambrian, C 1. Polished slab, 18 by 12 inches. (933.)
- Greenish-grey and light green, with dark green and greenish-black inclusions and markings.—Lot 5, range B. of Orford, Sherbrooke county, Q.—Cambrian, C 1. Polished slab, 18 by 12 inches. (934.)
- Light to dark reddish-brown, with light green and white veinings.—Lot 7, range A. of Orford, Sherbrooke county, Q.—Cambrian, C 1. Polished slab, 18 by 12 inches. (935.)
- Pale olive-green and light to dark brownish-yellow, with inclusions and veinings of light to dark green serpentine.—Lot 21, range VI. of Melbourne, Richmond county, Q.—Cambrian, C 1. Polished slab, 18 by 12 inches. (937.)
- Greenish-grey, light green and dark greyish-green, with inclusions of white and bluish-grey calcite.—Lot 5, range B. of Orford, Sherbrooke county, Q.—Cambrian, C 1. Polished slab, 18 by 12 inches. (938.)
- Light purplish and greenish-grey, with inclusions of white (calcite) and dark green and greenish-black.—Lot 6, range XIII. of Orford, Sherbrooke county, Q.—Cambrian, C 1. Polished slab, 18 by 12 inches. (940.)
- Light green and greenish-grey, with markings of white calcite.—Lot 6, range XIII. of Orford, Sherbrooke county, Q.—Cambrian, C 1. Polished slab, 18 by 12 inches. (944.)
- Greenish-grey, light green and dark greyish-green, with inclusions of white calcite, structure in parts brecciated.—Lot 5, range B. of Orford, Sherbrooke county, Q.—Cambrian, C 1. Polished slab, 18 by 12 inches. (948.)
- Dark green, with olive and light green network, brecciated.—Lot 15, range XVIII. of Orford, Sherbrooke county, Q.—Cambrian, C 1. Polished slab, 29 by 18 inches. (950.)
- Olive-green, and light and dark green.—Lot 8, range III. of Ship-ton, Richmond county, Q.—Cambrian, C 1.—Polished slab, 18 by 12 inches. (960.)
- Dark green, with network of olive and light green, and inclusions of white calcite, brecciated.—Lot 6, range XIII. of Orford, Sherbrooke county, Q.—Cambrian C 1. Polished slab, 11½ by 8¼ inches. (964.)
- Light and dark green.—South Ham, Wolfe county, Q.—Cambrian, C 1. Polished slab, 14½ by 7 inches. (988.)
- Light and dark green, with light greenish-grey markings.—Lot 20, range V. of Melbourne, Richmond county, Q.—Cambrian, C 1. Polished slab, 29 by 10 inches. (1143.)

MARBLES—Continued.

Serpentine Marbles—Continued.

- Serpentine**—Light brownish-green and light green, with inclusions of calcite.—Orford, Sherbrooke county, Q.—Cambrian, C 1. Polished slab, 13 by 10 inches. (4867.)
- Light and dark green.—Orford, Sherbrooke county, Q.—Cambrian, C 1. Polished slab, 29 by 18 inches. (4873.)
- Light and dark green, with inclusions of white calcite, brecciated, (Verd Antique).—Lot 7, range VIII. of Orford, Sherbrooke county, Q.—Cambrian, C 1. Polished slab, 43½ by 15 inches. (4963.)
- Dark green, with olive and light green network, brecciated.—Lot 6, range XIII. of Orford, Sherbrooke county, Q.—Cambrian, C 1. Polished block, 18 by 14 by 2 inches. (5035.)
- Light and dark green, with purplish-brown markings.—Brompton Lake, Orford, Sherbrooke county, Q.—Cambrian, C 1. Polished block, 18 by 12 by 4 inches. (5036.)
- Jasper conglomerate**.—Bruce Mines, Lake Huron, district of Algoma, O.—Huronian, B. Polished block, 18 by 15 by 4 inches. (5037.)
- Volcanic breccia**.—Made up of brownish-red, brownish-yellow, reddish-brown, greenish-grey, brown (sepia) and red fragments and particles.—From one of the Ballinac Islands, B.C. Polished slab, 18 by 12 inches. (899.)

Polished columns and pedestals of limestone and serpentine marbles and of other ornamental stones occupy a position immediately in front of some of the windows, also at either end of the central series of table-cases, and occasionally against the wall.

The following series of cut and polished specimens of :

* ARCHEAN AND PALÆOZOIC ROCKS.

are arranged in a frame attached to the wall.

PRE-CAMBRIAN ROCKS.

Laurentian Rocks.

- Felspar-porphry**.—Chatham, Argenteuil county, Q. (1025.)
- do do do (1026.)
- do do do (1027.)
- Grenville do do (1028.)
- do do do (1029.)
- do do do (1032.)
- Diorite**.—Bradore Bay, Saguenay county, Q. (1030.)
- Syenitic-porphry**.—Great Mecatina Harbour, Saguenay county, Q. (1031.)
- Conglomerate**.—Wentworth do do (1033.)
- Siliceous breccia**.—Grenville do do (1034.)
- Agglomerate**.— do do do (1035.)
- do do do (1036.)
- Limestone**.—Arnprior, Renfrew county, O. (1037.)
- Garnetiferous gneiss**.—River Rouge, Argenteuil county, Q. (1038.)
- Albite (peristerite)**.—Bathurst, Lanark county, O. (1039.)
- Perthite**.—North Burgess do do (1040.)

ARCHEAN AND PALÆOZOIC ROCKS—*Continued.***PRE-CAMBRIAN ROCKS**—*Continued.***Laurentian Rocks**—*Continued.*

- Anorthosite.**—Wolfe, Argenteuil county, Q. (1041.)
 — Peribonka River, Lake St. John, Chicoutimi county, Q. (1042.)
- Gneiss.**—Goules Island. (1043.)
 — Grenville, Argenteuil county, Q. (1044.)
 — Saguenay county, Q. (1045.)
 — Batchewahung Bay, Lake Superior, O. (1046.)
 — North shore of Lake Huron, O. (1048.)
 — Great Mecatina River, Saguenay county, Q. (1049.)
 — Chatham, Argenteuil county, Q. (1052.)
 — Watcheeshoo Bay, Mingan, Saguenay county, Q. (1053.)
 — Harrington, Argenteuil county, Q. (1054.)
 — Ramsay, Lanark county, O. (1055.)
 — Ha-ha Bay, Saguenay county, Q. (1056.)
 — Mingan do do (1057.)
 — Ramsay, Lanark county, O. (1058.)
 — Wilson's camp. (1059.)
 — Manitou River, Mingan, Saguenay county, Q. (1060.)
 — Saguenay county, Q. (1062.)
 — Watcheeshoo Bay, Mingan, Saguenay county, Q. (1063.)
 — Grenville, Argenteuil county, Q. (1064.)
 — do do do (1065.)
 — Mutton Bay, Saguenay county, Q. (1066.)
 — Esquimaux Bay, Saguenay County, Q. (1068.)
- Banded quartzite.**—Pillage Bay, Mingan, Saguenay county, Q. (1061.)
- Granite.**—Goddard Island, Labrador. (1047.)
 — Gananoque, Leeds county, O. (1050.)
- Granitic veinstone.**—Wentworth, Argenteuil county, Q. (1067.)
- Veinstone.**—Lake St. John, Chicoutimi county, Q. (1051.)

Huronian Rocks.

- Diabase porphyry.**—Batchewahung Bay, Lake Superior, O. (1069.)
- Breccia.**—Drummondville, Drummond county, Q. (1070.)
- Cupriferous breccia.**—Acton, Bagot county, Q. (1071.)
- Breccia.**—Wendover, Drummond county, Q. (1072.)
 — Belœil, Rouville county, Q. (1073.)
 — do do do (1074.)
 — Farnham, Brome do (1075.)
- Limestone breccia.**—Ste. Marguerite, Dorchester county, Q. (1076.)
- Breccia.**—Kingsey, Richmond county, Q. (1077.)
 — Drummondville, Drummond county, Q. (1078)
- Serpentine.**—Cleveland, Richmond county, Q. (1079.)
 — Melbourne, do do (1080.)
- Porphyry.**—Drummondville, Drummond county, Q. (1081.)
- Amygdaloid.**—Maddington Mines, Nicolet county, Q. (1082.)
- Diorite breccia.**—Wendover, Drummond county, Q. (1083.)
- Porphyry.**—Drummondville do do (1084.)

ARCHEAN AND PALÆOZOIC ROCKS—*Continued.*PRE-CAMBRIAN ROCKS—*Continued.*Huronian Rocks—*Continued.*

- Diorite.—Melbourne, Richmond county, Q. (1085.)
 Quartzite.—Loc. ? (1086.)
 Granite.—Cleveland, Richmond county, Q. (1087.)
 Granitoid conglomerate.—St. Gervais, Bellechasse county, Q. (1088.)
 Limestone.—Stukely, Shefford county, Q. (1089.)
 Conglomerate.—Mississagui River, Lake Huron, O. (1090.)
 Limestone.—Portlock Harbour do (1091.)
 Jasper conglomerate.—Bruce Mines do (1092.)
 Conglomerate.— do do (1093.)
 Jasper conglomerate.— do do (1094.)
 Quartz conglomerate.— do do (1095.)
 Felspathic sandstone.—Walker's Lake, district of Algoma, O. (1096.)
 Altered sandstone.—Echo Lake, district of Algoma, O. (1097.)
 Schist.—St. John, St. John county, N.B. (1098.)
 Breccia.—Batchewahung Bay, Lake Superior, O. (1099.)
 Indurated slate.—Sturgeon River, district of Nipissing, O. (1100.)
 Blackish-green serpentine.—Pistolet Bay, Newfoundland. (1101.)
 Fine grained greenish felspathic rock.—Pistolet Bay, Newfoundland. (1102.)
 Olive-green, fine grained calcareous diorite.— do do (1103.)
 Greyish-green diorite.— do do (1104.)
 Fine grained calcareous diorite.— do do (1105.)
 Fine grained felspathic rock.— do do (1106.)
 Black slate, with greyish-black clouds.— do do (1107.)
 Serpentine, traversed by bands of diorite.— do do (1108.)
 Fine grained black slate.— do do (1109.)
 Gneiss.—Portlock Harbour, Lake Huron, O.— do do (1122.)

CAMBRIAN ROCKS.

- Amygdaloid.—Harmony River, Lake Superior, O. (1110.)
 Trap.—Victoria Island, Lake Superior, O. (1111.)
 Limestone.—St. Armand, Missisquoi county, Q. (1112–1118.)
 Quartz conglomerate.—St. Nicholas, Lévis county, Q. (1119.)
 Porphyritic diorite.—Gaspé county, Q. (1120.)
 Calcareous slate.—Martin River, Christie, Gaspé county, Q. (1121.)
 Coarsely crystalline red dolomite.—Marquette, Lake Superior (south shore). (1123.)
 Grey chert, banded with red dolomite.—Marquette, Lake Superior (south shore). (1124.)

BRICK-CLAYS AND BRICKS, COMMON AND ORNAMENTAL, AND DRAIN-TILES.

Upright
wing-case
16.

- Brick-clay.—Salt Springs, parish of Dorchester, Antigonish county, N.S. (5337.)
 (1) Brick (red) made from clay No. 5337.—D. Chisholm, 1886. (5337a.)

BRICK-CLAYS AND BRICKS, ETC.—*Continued.*

- Brick-clay**—Antigonish, Antigonish county, N.S. (5394.)
- (1) Brick (red) made from clay No. 5394.—Samuel Hulbert, 1886. (5394a.)
- Claremont, Cumberland county, N.S. (5126.)
- Avonport, King's county, N.S.—Jacob Walton, 1885. (5172.)
- River Denys, near the cross road, Inverness county, N.S.—Presented by Hon. W. McDonald, 1885. (3601.)
- From the mouth of the harbour, Charlottetown, Queen's county, P.E.I. (4937.)
- Fredericton, York county, N.B.—Coll., R. Chalmers, 1884. (4948.)
- Fairville, St. John county, N.B.—Coll., R. Chalmers, 1884. (4949.)
- (1) Flooring tile (red) made from clay No. 4949. J. Lee & Co., 1885. (4949a.)
- Lewisville, Westmoreland county, N.B.—Coll., R. Chalmers, 1884. (4950.)
- Vicinity of Three Rivers, St. Maurice county, Q.—brick made from. (604.)
- St. John's, St. John's county, Q.—A. Mochon, 1875. (619.)
- St. John's do do —employed for pottery.—E. H. and L. E. Farrar, 1875. (1139.)
- Montreal, Hochelaga county, Q. (601.)
- (1) Brick (red) made from clay No. 601.—Bulmer and Shepard, 1875. (601a.)
- Montreal, Hochelaga county, Q.—employed for pottery.—R. Bannerman, 1875. (1146.)
- Yamaska, Yamaska county, Q.—brick (red) glazed, made from. (609.)
- St. Jean, Lotbinière county, Q. (1140.)
- Lot 20, range III. of Kenyon, Glengarry county, O. (5146.)
- (1) Stock brick (red), machine-made, made from clay No. 5146.—D. McGillivray, Athol Brick Yard, 1885. (5146a.)
- Lot 10, range V. of Russell, Russell county, O. (5177.)
- (1) Stock brick (red), machine-made, made from clay No. 5177.—H. Rombaugh, 1885. (5177a.)
- New Edinburgh, Carleton county, O. (1198.)
- (1) Marl, New Edinburgh, Carleton county, O. (1198a.)
- (2) Ornamental bricks (white), made from clay No. 1198 by admixture of same with a calcareous marl—No. 1198a.—T. M. Clarke. (1198b.)
- Archville, Nepean, Carleton county, O. (5073.)
- (1) Stock brick (red), machine-made, made from clay No. 5073.—H. C. Odell, Ottawa, O., 1885. (5073a.)
- Bell's Corners, Nepean, Carleton county, O. (1142.)
- Richmond, Goulburn do do (5179.)
- (1) Stock brick (red), machine-made, made from clay No. 5179.—H. McElroy & Son, 1885. (5179a.)
- Lot 17, range XI. of Beckwith, Lanark county, O.—W. Willoughby, Carleton Place, O., 1885. (5071.)
- Lot 14, range VIII. of Ramsay, Lanark county.—J. Metcalfe, 1875. (1136.)
- Lot 20, range VIII. of Ramsay, Lanark county, O.—David Moore, Almonte, O., 1885. (5069.)
- Pembroke, Renfrew county, O. (5072.)
- (1) Stock brick (red), hand-made, made from clay No. 5072.—Thomas Cashmore, 1885. (5072a.)

Upright
wing-case
16.—
Continued.

BRICK-CLAYS AND BRICKS, ETC.—*Continued.*

- Upright
wing-case
16.—
Continued.
- Brick-clay**—Lot 30, range I. of Stafford, Renfrew county, O.—Jas. Johnson, Pembroke, O. (5068.)
- East half of lot 7, range XIII. of McNab, Renfrew county, O.—Wm. Baker, Arnprior, O., 1885. (5070.)
- Brockville, Leeds county, O. (5173.)
- (1) Brick (white) made from clay No. 5173.—A. Odell, 1885. (5173a.)
- Brockville, Leeds county, O. (5175.)
- (1) Brick (red) made from clay No. 5175. (5175a.)
- Kingston, Frontenac county, O. (4956.)
- (1) Stock brick (red), hand-made, made from clay No. 4956.—Johnston Day, Waterloo, O., 1885. (4956a.)
- (2) Soft brick (red), made from clay No. 4956.—J. McMichael, Kingston, O., 1885. (4956b.)
- (3) Stock brick (red), machine-made, made from clay No. 4956.—Edward Riley, Cataraqui, O., 1885. (4956c.)
- Bloomfield, Hallowell, Prince Edward county, O. (5154.)
- (1) Stock brick (red), machine-made, made from clay No. 5154.—A. B. Saylor, 1885. (5154a.)
- Belleville, Thurlow, Hastings county, O. (4957.)
- (1) Unburnt brick, made from clay No. 4957. (4957a.)
- (2) Stock brick (red), machine-made, made from clay No. 4957. (4957b.)
- (3) Stock brick (red), hand-made, made from clay No. 4957. (4957c.)
- (4) Pressed brick (red), made from clay No. 4957.—C. H. La Roche & Co., 1885. (4957d.)
- (5) Ornamental brick (red), made from clay No. 4957.—N. Lingham, 1885. (4957e.)
- Lot 12, range I. of Rawdon, Hastings county, O. (5162.)
- (1) Stock brick (red), machine-made, made from clay No. 5162.—R. Langman, 1885. (5162a.)
- East half of lot 32, range XII. of Otonabee, Peterborough county, O. (5160.)
- (1) Stock brick (red), machine-made, made from clay No. 5160.—M. Curtis & Sons, 1885. (5160a.)
- Darlington, Durham county, O. (5166.)
- (1) Stock brick (red), made from clay No. 5166.—R. Hambly, Bowmanville Brick and Tile Yard, 1885. (5166a.)
- Penetanguishene, Simcoe county, O. (5168.)
- (1) Stock brick (red), machine-made, made from clay No. 5168.—C. Beck & Co., 1885. (5168a.)
- Hamilton, Barton, Wentworth county, O. (4951.)
- (1) Stock brick (red), machine-made, made from clay No. 4951.—W. Hancock, 1885. (4951a.)
- (2) Pressed brick (red), made from clay No. 4951. (4951b.)
- (3) Ornamental brick (red), made from clay No. 4951.—Isaac Beers, 1885. (4951c.)
- (4) Pressed brick (white), made from clay No. 4951.—F. Childs, 1885. (4951d.)
- Owen Sound, Grey county, O. (1131.)
- (1) Stock brick (red), machine-made, made from clay No. 1131. (1131a.)
- (2) Pressed brick (red), made from clay No. 1131. (1131b.)
- (3) Stock brick (white), made from clay No. 1131, employing a different sand. (1131c.)

BRICK-CLAYS AND BRICKS, ETC.—*Continued.*

- Brick-clay**—Brant, Bruce county, O. (5156.)
- (1) Stock brick (white), machine-made, made from clay No. 5156.—Charles Scarborough, Hanover Brick Yard, 1885. (5156a.)
- Port Elgin, Bruce county, O. (5158.)
- (1) Stock brick (white), machine-made, made from clay No. 5158.—Henry Smith, 1885. (5158a.)
- Kincardine, Bruce county, O.—George Riggins, 1875. (1137.)
- Stephen, Bruce county, O. (5164.)
- (1) Pressed brick (white), made from clay No. 5164. (5164a.)
- Limehouse, Halton county, O (558, 602.)
- suitable for the manufacture of terra cotta.—East half of lot 2, range VII. of Nassagaweya, Halton county, O. (970.)
- (1) Ornamental bricks, made from clay No. 970. (970a.)
- (2) Medallions, made from clay No. 970. (970b.)—Toronto Pressed Brick and Terra Cotta Company—Works, Milton, O.—Presented by Hon. G. C. McKindsey, 1890.
- Yorkville, Toronto, York county, O. (556.)
- (1) Stock brick (white), machine-made, made from clay No. 556.—Wm. Greensides, 1885. (556a.)
- (2) Stock brick (white), machine-made, made from clay No. 556.—T. Nightingale, 1885. (556b.)
- (3) Stock brick (white), machine-made, made from clay No. 556.—J. Gibson, 1885. (556c.)
- (4) Pressed brick (white), made from clay No. 556.—Yorkville and Carlton Brick Manufacturing Company, 1885. (556d.)
- (5) Drain-tiles (white), made from clay No. 556.—T. Nightingale, 1885. (556e.)
- (6) Drain-tiles (white), made from clay No. 556.—Bulmer and Douglas. (556f.)
- (7) Drain-tiles (white), made from clay No. 556.—J. Sheppard, 1885. (556g.)
- Yorkville, Toronto, York county, O. (1134.)
- (1) Stock brick (red), machine-made, made from clay No. 1134.—Wm. Greensides, 1885. (1134a.)
- (2) Drain-tiles (red), made from clay No. 1134.—T. Nightingale, 1875. (1134b.)
- Leslie Street, Toronto, York county, O. (4952.)
- (1) Stock brick (grey), machine-made, made from clay No. 4952.—J. Price, 1885. (4952a.)
- Leslie Street, Toronto, York county, O. (4953.)
- (1) Stock brick (mottled), machine-made, made from a mixture of clays Nos. 4952 and 4953.—J. Cook, 1885. (4953a.)
- Doncaster, York county, O. (4954.)
- (1) Stock brick (red), hand-made, made from clay No. 4954.—H. P. Phillips, 1885. (4954a.)
- Carlton West, York county, O. (4955.)
- (1) Stock brick (red), machine-made, made from clay No. 4955.—Yorkville and Carlton Brick Manufacturing Company. (4955a.)
- (2) Pressed brick (red), made from clay No. 4955. (4955b.)
- (3) Ornamental brick (red), made from clay No. 4955.—Geo. Townsley, 1885. (4955c.)
- (4) Ornamental brick (red), made from clay No. 4955. (4955d.)

Upright
wing-case
16.—
Continued.

Upright
wing-case
17.

BRICK-CLAYS AND BRICKS, ETC.—*Continued.*

- Upright
wing-case
17.—
Continued.
- Brick-clay**—(Carlton West, York county, O. (4955.)—*Continued.*
- (5) Elbow for drain-tiles, made from clay No. 4955.—M. Wakefield, 1886. (4955e.)
 - Lot 22, range I. of Clinton, Lincoln county, O. (5192.)
 - (1) Stock brick (red), machine-made, made from clay No. 5192. (5192a.)
 - (2) Drain-tiles (red), made from clay No. 5192.—Wm. Tallman & Son, Beamsville, O., 1885. (5192b.)
 - Tilsonburgh, Oxford county, O. (5150.)
 - (1) Stock brick (white), machine-made, made from clay No. 5150.—Edwin D. Tillson, 1885. (5150a.)
 - Lot 29, range II. of Bertie, Welland county, O. (5152.)
 - (1) Stock brick (white), machine-made, made from clay No. 5152.—A. Detterling, 1885. (5152a.)
 - Westminster, Middlesex county, O. (5170.)
 - (1) Stock brick (white), machine-made, made from clay No. 5170.—James Johnson, London, O., 1885. (5170a.)
 - London, Middlesex county, O.—S. Russell, 1875. (1141.)
 - London, do do —employed for pottery.—C. Pratt, 1875. (1138.)
 - Lot 2, range VI. Ekfrid, Middlesex county, O. (5142.)
 - (1) Pressed brick (white), made from clay No. 5142.—F. W. Wade, Valley Brick Yard, 1885. (5142a.)
 - Brantford, Brant county, O.—H. Workman, 1875. (1145.)
 - St. Thomas, Elgin county, O. (5148.)
 - (1) Pressed brick (white), made from clay No. 5148.—M. C. Freck, 1885. (5148a.)
 - Winnipeg, Manitoba, 9' below the surface. (860.)
 - Winnipeg do 12' do (861.)
 - Winnipeg do 16' do (862.)
 - Presented by Daniel Smith, 1884.
 - Stony Mountain, Manitoba.—Barclay and Morrison, 1875. (603.)
 - White Mud River, from base of Fox Hills, district of Assiniboia, N.W.T.—Coll., R. G. McConnell, 1883. (3654.)
 - White Mud River, near the mouth of Farewell Creek, district of Assiniboia, N.W.T. (5243.)
 - Arenaceous clay, occurring in connection with No. 5243.—Coll., R. G. McConnell, 1883. (5811.)
 - Vicinity of Pasqua, township 15, range XXV. west of the 2nd initial meridian, district of Assiniboia, N.W.T.—Coll., R. G. McConnell, 1883. (5245.)
 - From above the boulder clay.—Eight miles above the Forks of the Red Deer River, district of Assiniboia, N.W.T.—Coll., R. G. McConnell, 1883. (4666.)
 - Cypress Hills, district of Assiniboia, N.W.T.—Coll., R. G. McConnell, 1883. (4667.)
 - From lignite deposit.—South Saskatchewan River, south side, about six miles above Medicine Hat, district of Assiniboia, N.W.T.—Coll., T. C. Weston, 1884. (4958.)
 - Crooked Creek, near Waterton Lake, district of Alberta, N.W.T.—Coll., T. C. Weston, 1883. (3531.)
 - Intercalated in boulder clay.—Coal Banks, Belly River, district of Alberta, N.W.T.—Coll., T. C. Weston, 1883. (3533.)
 - Three miles above Coal Banks, Belly River, district of Alberta, N.W.T.—Coll., T. C. Weston, 1883. (3534.)

BRICK-CLAYS AND BRICKS, ETC.—Continued.

- Brick-clay.**—A two-inch parting in coal seam.—Galt mine, Coal Banks, Belly River, district of Alberta, N. W. T.—Coll., T. C. Weston, 1883. (3535.)
- Overlying boulder clay.—Near Fort Kipp, Old Man River, district of Alberta, N. W. T.—Coll., T. C. Weston, 1883. (3536.)
- Dutch Fred's crossing, Waterton River, district of Alberta, N. W. T.—Coll., T. C. Weston, 1883. (3537.)
- Pincher Creek, district of Alberta, N. W. T.—Coll., T. C. Weston, 1883. (3538, 3539, 3540.)
- Park Reserve, New Westminster, B. C.—Henderson and Monahan, 1885. (5191.)
- Vicinity of Nanaimo, Vancouver Island, B. C.—Pressed brick (red), made from. (5131.)
- Victoria, Vancouver Island, B. C. (5188.)
- (1) Brick (red) made from clay No. 5188.—M. Humber, 1885. (5188a.)
- Guichon Creek, about three miles up from mouth, Nicola, B. C.—employed for pottery.—De Wolf and Monroe, Vancouver, B. C., 1891. (5194.)
- Treadwell, North Plantagenet, Prescott county, O.—Drain-tiles (red), made from. (613.)
- River St. Charles, vicinity of Quebec, Quebec county, Q. (1135.)
- (1) Drain-tiles (red), made from clay No. 1135.—David Bell, Little River, Q (1135a.)

Upright
wing-case
17.—
Continued.

- Sand,** used in the manufacture of building brick.—Upper Woodstock, Carleton county, N. B. (555.)
- used in the manufacture of building brick.—Montreal, Hochelaga county, Q. (1150.)
- used for sanding brick moulds.—Port Nelson, Halton county, O.—F. Childs, Hamilton, O., 1885. (4959.)

RAW LIME AND CEMENT STONES, AND COMMON AND HYDRAULIC LIMES.**Raw limestones and prepared limes.**

- Limestone.**—Lot 18, range VII. of Dudswell, Wolfe county, Q.—Silurian, E 3. (5106.)
- (1) Lime prepared from limestone No. 5106.—Dudswell Marble and Lime Company, Marbleton, Q., 1885. (5106a.)
- St. Armand, Missisquoi county, Q.—lime prepared from. (1195.)
- St. John's, St. John's county, Q.—lime prepared from.—D. Breault & Sons, 1885. (2584.)
- Montreal, Hochelaga county, Q.—Cambro-Silurian, D 2. (654.)
- (1) Lime prepared from limestone No. 654.—C. A. Garvais, 1875. (654a.)
- Wright's quarry, Hull, Ottawa county, Q.—Cambro-Silurian, D 2. (5060.)
- (1) Lime prepared from limestone No. 5060.—C. B. Wright, 1885. (5060a.)
- Pugwash, Cumberland county, N. S.—lime prepared from.—D. Douglas, 1875. (1186.)
- Lot 10, range IV. of Ramsay, Lanark county, O.—Laurentian, A. (5128.)

Upright
wing-case
18.

RAW LIME AND CEMENT STONES, ETC.—*Continued.***Raw limestones and prepared limes**—*Continued.*Upright
wing-case
18.—
Continued.

- Limestone.**—Lot 10, range IV. of Ramsay, Lanark county, O. (5128.)—*Con.*
 (1) Lime prepared from limestone No. 5128.—A. Sutherland, 1885. (5128a.)
- Ramsay, Lanark county, O.—Laurentian, A. (5185.)
 (1) Lime prepared from limestone No. 5185.—J. Paul, 1885. (5185a.)
- Lot 21, range X. of Lanark, Lanark county, O.—Laurentian, A. (5056.)
 (1) Lime prepared from limestone No. 5056.—J. Hogg, Almonte, O., 1885. (5056a.)
- Lot 7, range XIII. of McNab, Renfrew county, O.—Laurentian, A. (5054.)
 (1) Lime prepared from limestone No. 5054.—W. Baker, Arnprior, O., 1885. (5054a.)
- East half of lot 13, range III. of Horton, Renfrew county, O.—Laurentian, A. (5052.)
 (1) Lime prepared from limestone No. 5052.—J. A. Jamieson, Renfrew, O., 1885. (5052a.)
- Lot 21, range IV. of Ross, Renfrew county, O.—Laurentian, A. (823.)
 (1) Lime prepared from limestone No. 823.—P. Ferguson, Haly's station, O., 1885. (823a.)
- Dundas, Wentworth county, O.—lime prepared from.—E. & C. Farquhar, 1875. (1189.)
- St. Mary's, Perth county, O.—lime prepared from.—Whitson & Slater, 1875. (1193.)
 (magnesian.)—Guelph, Wellington county, O.—Silurian, E 4. (660.)
 (1) Lime prepared from limestone No. 660.—R. Elmsley, 1875. (660a.)
- Lot 5, range V. of Eramosa, Wellington county, O.—lime prepared from.—George Dunbar, 1875. (1192.)
 (magnesian.)—Walkerton, Bruce county, O.—lime prepared from. (773.)
- Kincardine, Bruce county, O.—lime prepared from.—Levi Lewis, 1875. (1187.)
- Galt, Waterloo county, O.—lime prepared from.—Mrs. Ballantyne, 1875. (1188.)
 (magnesian.)—Limehouse, Halton county, O.—lime prepared from.—Thomas Gowdie, 1875. (1190.)
- Cayuga, Haldimand county, O.—lime prepared from.—Dr. B. Baxter, 1875. (1191.)
- Lot 1, range I. of Colborne, Huron county, O.—Devonian, F. (5140.)
 (1) Lime prepared from limestone No. 5140.—Thomas Good, Benn Miller Lime Works, 1885. (5140a.)

Raw cement stones and prepared cements.

- Cement-stone, raw.**—Head of Iroquois Portage, Grand Coupe, Gaspé county, Q.—Cambro-Silurian, D 3. (662.)
- St. John's ward, Quebec, Quebec county, Q.—cement prepared from.—Gauvreau & Co., 1875. (1213.)

RAW LIME AND CEMENT STONES, ETC.—*Continued.*Raw cement stones and prepared cements—*Continued.*

- Cement-stone, raw—Lot 22, range III. of Grantham, Drummond county, Q. (1215.)
 (1) Cement prepared from raw cement-stone No. 1215. (1215a.)
 — Arthabaska, Arthabaska county, Q.—cement prepared from.—Sheriff Quesnel, 1875. (2585.)
 — Nepean, Carleton county, O.—Cambro-Silurian, D 1. (670.)
 (1) Cement prepared from raw cement-stone No. 670.—C. B. Wright, Hull, Q., 1885. (670a.)
 — Gale's farm, Hochelaga, Hochelaga county, Q.—Cambro-Silurian, D. (1216.)
 — Lot 6, range XI. of Pakenham, Lanark county, O.—Cambro-Silurian, D 1. (671.)
 — Two miles below Kingston, Frontenac county, O.—Cambro-Silurian, D 1. (668.)
 — Limehouse, Halton county, O.—Silurian, E 2. (658.)
 (1) Cement prepared from raw cement-stone No. 658.—Thomas Gowdie, 1875. (658a.)
 — Goderich (Maitland River bridge), Huron county, O.—Devonian, F 1. (669.)
 — Thorold, Welland county, O.—Silurian, E 3. (1218.)

Upright
wing-case
18.—
Continued.

GYPSUM, ANHYDRITE AND PLASTER-OF-PARIS.

Gypsum.

- Gypsum.—Bras d'Or Lake, four miles east of Baddeck, Victoria county, N.S.—Coll., H. Fletcher, 1875.—Carboniferous, G 1. (627.)
 — "East" quarry, Grandique, Richmond county, N.S.—Coll., H. How, 1871.—Carboniferous, G 1. (628.)
 — "West" quarry, Grandique, Richmond county, N.S.—Coll., H. How, 1871.—Carboniferous, G 1. (634.)
 — "Centre" quarry, Grandique, Richmond county, N.S.—Coll., H. How, 1871.—Carboniferous, G 1. (656.)
 — North Shore, St. Ann's Bay, Cape Breton county, N.S.—Coll., H. Fletcher, 1875.—Carboniferous, G 1. (1201.)
 — "Clifton" quarry, near Windsor, Hants county, N.S.—Coll., H. How, 1871.—Carboniferous, G 1. (618.)
 — Two miles east of Windsor, Hants county, N.S.—Coll., H. How, 1871.—Carboniferous, G 1. (624.)
 — Sweet's quarry, about five miles east of Windsor, Hants county, N.S.—Coll., H. How, 1871.—Carboniferous, G 1. (626.)
 — Latchey's quarry, near Windsor, Hants county, N.S.—Coll., H. How, 1871.—Carboniferous, G 1. (632.)
 — var. selenite.—Windsor, Hants county, N.S.—Coll., H. How, 1871.—Carboniferous, G 1. (633.)
 — (fibrous).—Windsor, Hants county, N.S.—Coll., H. How, 1871.—Carboniferous, G 1. (642.)
 — Wilkins' quarry, near Windsor, Hants county, N.S.—Coll., H. How, 1871.—Carboniferous, G 1. (651.)
 — Windsor, Hants county, N.S.—(calcined = Plaster-of-Paris). (694.)
 — Hanson's quarry, Falmouth, Hants county, N.S.—Coll., H. How, 1871.—Carboniferous, G 1. (620.)

Upright
wing-case
19.

GYPSUM, ANHYDRITE AND PLASTER-OF-PARIS—*Continued.***Gypsum**—*Continued.*

- Upright
wing-case
19.—
Continued.
- Gypsum**—Payzant's quarry, Falmouth, Hants county, N.S.—Coll., H. How, 1871.—Carboniferous, G 1. (621.)
- Young's quarry, Falmouth, Hants county, N.S.—Coll., H. How, 1871.—Carboniferous, G 1. (625.)
- Three-mile Plains, Hants county, N.S.—Coll., H. How, 1871.—Carboniferous, G 1. (629.)
- var. selenite.—Wentworth, Hants county, N.S.—Coll., H. How, 1871.—Carboniferous, G 1. (640.)
- Wentworth, Hants county, N.S.—Coll., H. Y. Hind, 1875.—Carboniferous, G 1. (707.)
- "Blue" quarries, Wentworth, Hants county, N.S.—Coll., H. Y. Hind, 1875.—Carboniferous, G 1. (737.)
- Chambers' quarry, about one mile south-west of Brooklyn, Hants county, N.S.—Coll., H. How, 1871.—Carboniferous G 1. (623.)
- Grant's quarry, Loyal Hill, Summerville, Hants county, N.S.—Coll., H. How, 1871.—Carboniferous, G 1. (645.)
- Burgess' quarry, about a mile and a half east of Newport station, Hants county, N.S.—Coll., H. How, 1871.—Carboniferous, G 1. (646.)
- (fibrous).—Maitland, Hants county, N.S.—Coll., H. How, 1871.—Carboniferous, G 1. (650.)
- Walton, Hants county, N.S.—Coll., H. How, 1871.—Carboniferous, G 1. (775.)
- Beaver Brook, Colchester county, N.S.—(calcined=Plaster-of-Paris). (709.)
- var. selenite.—Cape Blomidon, King's county, N.S.—Coll., C. W. Willimott, 1883.—Triassic, H. (639.)
- (fibrous).—Blomidon, King's county, N.S.—Coll., R. W. Ells, 1876.—Triassic, H. (772.)
- Oxford, River Philip, Cumberland county, N.S.—Presented by A. J. Hill, 1875.—Carboniferous, G 1. (776.)
- Black River, a mile and a half east of Salt Springs station, Intercolonial Railway, Cumberland county, N.S.—Coll., S. Barlow, 1875.—Carboniferous, G 1. (777.)
- Claremont Hill, a mile and a half south of Salt Springs station, Intercolonial Railway, Cumberland county, N.S.—Coll., S. Barlow, 1875.—Carboniferous, G 1. (706.)
- Fulton's quarry, Plaster Cove, Wallace Harbour, Cumberland county, N.S.—Coll., W. McOuatt, 1875.—Carboniferous, G 1. (779.)
- Plaster Cliff, Tobique River, Victoria county, N.B.—Coll., C. Robb, 1870.—Carboniferous, G 1. (641.)
- (fibrous).—Plaster Cliff, Tobique River, Victoria county, N.B.—Coll., C. Robb, 1870.—Carboniferous, G 1. (643.)
- Petitcodiac, Westmoreland county, N.B.—Coll., L. W. Bailey, 1875.—Carboniferous, G 1. (659.)
- Hillsborough, Albert county, N.B.—Coll., L. W. Bailey, 1875.—Carboniferous, G 1. (1199.)
- Amherst Island, Magdalen Islands, Q.—Coll., J. Richardson, 1880.—Carboniferous, G 1. (745.)
- (fibrous).—Grindstone Island, Magdalen Islands, Q.—Coll., J. Richardson, 1880.—Carboniferous, G 1. (760.)
- Alright Island, Magdalen Islands, Q.—Coll., J. Richardson, 1880.—Carboniferous, G 1. (761.)

GYPNUM, ANHYDRITE AND PLASTER-OF-PARIS—Continued.

Gypsum—Continued.

- Gypsum**—Oneida, Haldimand county, O.—Coll., T. C. Weston, 1875.—Silurian, E 5. (649.)
- Grand River, below Cayuga, Haldimand county, O.—Presented by W. H. Merritt, 1883.—Silurian, E 5. (653.)
- Mount Healy, Haldimand county, O.—Silurian, E 5. (720.)
- (1) Gypsum, calcined = Plaster-of-Paris, prepared from gypsum, No. 720.—The Ontario Plaster Company, Mount Healy, O. (720a.)
- with associated dolomite.—Mount Healy, Haldimand county, O.—Coll., T. C. Weston, 1875.—Silurian, E 5. (728.)
- (fibrous).—Paris, Brant county, O.—Silurian, E 5. (652.)
- (1) Gypsum, calcined = Plaster-of-Paris, prepared from gypsum No. 652.—William Coleman, Paris, O. (652a.)
- Moose River, thirty-eight miles above Moose Factory, district of Algoma, O.—Coll., R. Bell, 1875.—Devonian, F. (780.)
- Lake St. Martin, about ten miles west of the outlet of Little Saskatchewan River, Manitoba.—Presented by Thomas Guerin, 1882. (647.)
- Peace Point, Peace River, N.W.T.—Presented by J. H. Moberley.—Devonian, F. (5325.)
- Salmon River, between the South Thompson and head of Okanagan Lake, B.C. (698.)
- Vicinity of Spence's Bridge, Thompson River, B.C. (4771.)

Upright
wing-case
19.—
Continued.

Anhydrite.

- Anhydrite.**—Clifton quarry, near Windsor, Hants county, N.S.—Coll., H. How, 1871.—Carboniferous, G 1. (617.)
- Quarry two miles from Windsor, Hants county, N.S.—Coll., H. How, 1871.—Carboniferous, G 1. (648.)
- Hillsborough, Albert county, N.B.—Coll., L. W. Bailey, 1875.—Carboniferous, G 1. (1200.)

V.—MINERALS EMPLOYED AS PIGMENTS.

Iron ochres and other ferruginous minerals, and pigments prepared therefrom.

- Iron ochre.**—Dark brownish-yellow—Pudsey's Point, Apple River, Cumberland county, N.S.—Post-Tertiary, M 3. (2440.)
- Purplish-brown.—North-west branch of the Miramichi River, about fourteen miles from Redbank, Northumberland county, N.B.—Presented by J. Ferguson, 1890. (4691.)
- Brownish-yellow.—Carleton, Bonaventure county, Q.—Post-Tertiary, M 3. (726.)
- Brownish-yellow.—Côte St. Charles, Vaudreuil, Vaudreuil county, Q.—Post-Tertiary, M 3. (724.)
- Yellowish-brown.—Cap de la Magdeleine, Champlain county, Q.—Post-Tertiary, M 3. (729.)
- Brownish-red.—Cap de la Magdeleine, Champlain county, Q.—Post-Tertiary, M 3. (730.)

Upright
wing-case
20.

Iron ochres and other ferruginous minerals, etc.—Continued.

- Upright
wing-case
20.—
Continued.
- Iron ochre**—Brownish-yellow.—Cap de la Magdeleine, Champlain county, Q.—Post-Tertiary, M 3. (739.)
- Reddish-brown.—Lot 13, range IX. of Stanstead, Stanstead county, Q.—Post-Tertiary, M 3. (731.)
- Brownish-yellow.—Ste. Elizabeth, Joliette county, Q.—Post-Tertiary, M 3. (732.)
- Brownish-yellow.—Ste. Rose (Rosalie), seigniory of Lanoraie, Joliette county, Q.—Post-Tertiary, M 3. (734.)
- Brown, vandyke.—Ste. Anne de Montmorenci, Montmorency county, Q.—Post-Tertiary, M 3. (735.)
- Reddish-brown.—Ste. Anne de Montmorenci, Montmorency county, Q.—Post-Tertiary, M 3. (736.)
- Reddish-brownish-yellow.—Ste. Anne de Montmorenci, Montmorency county, Q.—Post-Tertiary, M 3. (740.)
- Dark brownish-yellow.—Ste. Anne de Montmorenci, Montmorency county, Q.—Post-Tertiary, M 3. (741.)
- Brownish-yellow.—Ste. Anne de Montmorenci, Montmorency county, Q.—Post-Tertiary, M 3. (742.)
- Brownish-yellow.—Ste. Marguerite, St. Maurice county, Q.—Post-Tertiary, M 3. (738.)
- Purplish-reddish-brown.—Pointe du Lac, St. Maurice county, Q.—Post-Tertiary, M 3. (743.)
- Yellowish brown.—Pointe du Lac, St. Maurice county, Q.—Post-Tertiary, M 3. (2445.)
- Dark yellowish-brown.—Pointe du Lac, St. Maurice county, Q.—Post-Tertiary, M 3. (2446.)
- Purplish-brown.—Lot 15, range X. of Hull, Ottawa county, Q.—Coll. C. W. Willimott, 1885.—Post-Tertiary, M 3. (5183.)
- Brownish-yellow.—Lot 30, range II. of Leslie, Pontiac county, Q.—Presented by R. H. G. Chapman, 1885. (5123.)
- Brownish-yellow.—Lot 2, range XI. of Nottawasaga, Simcoe county, O.—Post-Tertiary, M 3. (733.)
- Brownish-yellow.—Conestogo, Waterloo county, O.—Post-Tertiary, M 3. (2460.)
- Pigments prepared from iron ochre No. 2460 by James Newton, Limehouse, Halton county, O.—
- (1) Brownish-yellow. (2460a.)
 - (2) Clove-brown. (2460b.)
 - (3) Burnt umber. (2460c.)
- Brownish-yellow.—Lot 12, range XIV. of Walsingham, Norfolk county, O.—Post-Tertiary, M 3. (2467.)
- Pigments prepared from iron ochre No. 2467 by the Buchanan Mineral Company, Hamilton, O.—
- (1) Brownish-yellow, designated "metallic." (2467a.)
 - (2) do (2467b.)
 - (3) Brownish-red, designated "metallic." (2467c.)
 - (4) Deep brownish-red do (2467d.)
 - (5) do do (2467e.)
 - (6) Brownish-grey. (2467f.)
 - (7) Brownish-yellow. (2467g.)
 - (8) Reddish-brown. (2467h.)
- Brownish-yellow.—Silver Creek, Harrison Lake, about twenty miles north of Harrison Hot Springs, B.C.—Presented by John P. Brown, 1890. (708.)

Iron ochres and other ferruginous minerals, etc.—Continued.

- Iron ochre**—Brownish-red.—Silver Creek, Harrison Lake, about twenty miles north of Harrison Hot Springs, B.C.—Presented by John P. Brown, 1890. (710.)
- Deep brownish-red.—Silver Creek, Harrison Lake, about twenty miles north of Harrison Hot Springs, B.C.—Presented by John P. Brown, 1890. (795.)
- Bog iron ore**.—Mallorytown, Leeds county, O. (2466.)
- (1) Pigment (yellowish-brown), prepared from bog iron ore No. 2466 by the Leeds Paint Manufacturing Company, Mallorytown, O. (2466a.)
- Mallorytown, Leeds county, O.—Post Tertiary, M 3. (2463.)
- Pigments prepared from bog iron ore No. 2463 by the Leeds Paint Manufacturing Company, Mallorytown, O.—
- (1) Brownish-yellow. (2463a.)
- (2) Purplish-reddish-brown. (2463b.)
- Ferruginous rock**.—Mallorytown, Leeds county, O. (2464.)
- (1) Pigment (brownish-red), prepared from ferruginous rock No. 2464 by the Leeds Paint Manufacturing Company, Mallorytown, O. (2464a.)
- Mallorytown, Leeds county, O. (2465.)
- (1) Pigment (brownish-red, a different shade from 2464a), prepared from ferruginous rock No. 2465 by the Leeds Paint Manufacturing Company, Mallorytown, O. (2465a.)
- Sackville, Westmoreland county, N.B. (2452.)
- (1) Pigment (brownish-red), prepared from ferruginous rock No. 2452 by George Barnes. (2452a.)
- Clay**.—Limehouse, Halton county, O. (2455.)
- (1) Pigment (bluish-grey) prepared from clay No. 2455 by James Newton, Limehouse, O. (2455a.)
- Limehouse, Halton county, O. (2456.)
- (1) Pigment (brownish-grey) prepared from clay No. 2456 by James Newton, Limehouse, O. (2456a.)
- Hematite**.—Limehouse, Halton county, O.—Silurian, E 2. (2457.)
- (1) Pigment (purplish-brown), prepared from hematite No. 2457 by James Newton, Limehouse, O. (2457a.)
- Ferruginous dolomite**.—Limehouse, Halton county, O.—Silurian, E 2. (2458.)
- (1) Pigment (reddish-brown), prepared from ferruginous dolomite No. 2458 by James Newton, Limehouse, O. (2458a.)
- Ferruginous clay**.—Limehouse, Halton county, O. (2459.)
- (1) Pigment (reddish-brown), prepared from ferruginous clay No. 2459 by James Newton, Limehouse, O. (2459a.)
- Yellow.—Punk Island, Lake Winnipeg, Manitoba. (2475.)

Barite or Barytes.

- Barytes** (barite).—Judique, Inverness county, N.S.—Presented by H. S. Poole, 1875.—Carboniferous, G 1. (2479.)
- Bass River, Five Islands, Colchester county, N.S.—Coll., S. Barlow, 1875.—Carboniferous, G 1. (2468.)
- Memrancook, Westmoreland county, N.B.—Carboniferous, G 1. (2453.)
- Anse à la Vieille, Port Daniel, Bonaventure county, Q.—Coll., T. C. Weston, 1875.—Silurian, E 3. (749.)

Upright
wing-case
20.—
Continued.

Barite or Barytes—Continued.

- Upright wing-case 20.—
Continued.
- Barytes** (barite)—West half of lot 7, range X. of Hull, Ottawa county, Q.—Coll., J. Richardson.—Laurentian, A. (2476.)
- (1) Ground barytes (No. 2476) employed, in admixture, as a pigment. (2476a.)
- Lot 4, range IX. of North Burgess, Lanark county, O.—Laurentian, A. (750.)
- (1) Ground barytes (No. 750) employed, in admixture, as a pigment. (750a.)
- Lot 22, range I. of Lavant, Lanark county, O.—Laurentian, A. (994.)
- Lynch's farm, range IV. of Ramsay, Lanark county, O.—Presented by W. H. Wylie, 1885.—Laurentian, A. (2449.)
- Lot 3, range XI. of Pakenham, Lanark county, O.—Presented by W. H. Wylie, 1885.—Laurentian, A. (746.)
- Lot 15, range VI. of Madoc, Hastings county, O.—Laurentian, A. (751.)
- Galway, Peterborough county, O.—Laurentian, A. (748.)
- From the second cutting west of McKay's Harbour (Rosspport station, C.P.R., district of Thunder Bay, O. Coll., A. R. C. Selwyn, 1885.—Cambrian, C. (5387.)

Steatite.

Steatite (var. of talc).—Potton, Brome county, Q.—Cambrian, C. (747.)

The following have, temporarily, also been accommodated in this case :—

- Celestite.**—Lot 1, range VIII. of Lansdowne, Leeds county, O.—Laurentian, A. (752.)
- Lot 7, range X. of Bagot, Renfrew county, O.—Presented by Hiram Robinson, Ottawa, O., 1885. (5121.)
- Sydney River (about a mile and a half above Sydney Bridge), Cape Breton county, N.S.—Presented by E. T. Mozeley, 1883. (928.)
- Magnesite.**—Lot 12, range VII. of Sutton, Brome county, Q.—Pre-Cambrian, B? (701.)
- Lot 17, range IX. of Bolton, Brome county, Q.—Pre-Cambrian, B? (702.)
- (1) Magnesite, calcined, prepared from magnesite No. 702. (702a.)
- (2) Magnesium sulphate (Epsom salts) do (702b.)
- (3) Magnesium carbonate (magnesia alba) do (702c.)

VI.—REFRACTORY (FIRE-RESISTING) MINERALS.**GRAPHITE.****Graphite, and articles manufactured therefrom.**

- Upright wing-case 21.
- Graphite**, (disseminated).—Best's mine, St. John, St. John county, N.B.—Coll., H. P. Brumell, 1891.—Laurentian, A. (896.)
- (vein.)—North half of lot 3, range II. of the Augmentation of Grenville, Argenteuil county, Q.—Laurentian, A. (789.)

GRAPHITE—*Continued.*

Graphite, and articles manufactured therefrom—*Continued.*

Upright
wing-case
21.—
Continued.

- Graphite**, (vein.)—Lot 3, range VI. of the Augmentation of Grenville, Argenteuil county, Q.—Laurentian, A. (799.)
- (vein.)—Lot 1, range VI. of the Augmentation of Grenville, Argenteuil county, Q.—Laurentian, A. (801.)
- (vein.)—Miller's mine, lot 10, range V. of Grenville, Argenteuil county, Q.—Coll., R. Bell, 1875.—Laurentian, A. (790.)
- (vein.)—Lot 2, range X. of Grenville, Argenteuil county, Q.—Laurentian, A. (802.)
- (disseminated.)—Lochaber, Ottawa county, Q.—Laurentian, A. (793.)
(1) Dressed graphite, prepared from graphite No. 793. (793a.)
- (disseminated.)—Lots 15 and 16, range VI. of Buckingham, Ottawa county, Q.—Laurentian, A. (3689.)
- (vein.)—Lot 23, range VI. of Buckingham, Ottawa county, Q.—Laurentian, A. (2553.)
- (vein.)—Lot 27, range VI. of Buckingham, Ottawa county, Q.—Laurentian, A. (2486.)
- (vein.)—Buckingham, Ottawa county, Q.—Laurentian, A. (791.)
- (disseminated.)—Lot 28, range VI. of Buckingham, Ottawa county, Q.—Presented by W. H. Dickson, Ottawa, O., 1889.—Laurentian, A. (796.)
- (vein.)—Lot 21, range VII. of Buckingham, Ottawa county, Q.—Laurentian, A. (2551.)
(1) Plumbago crucible, manufactured from graphite No. 2551. (2551a.)
(2) Black-lead pencils, manufactured from graphite No. 2551. (2551b.)
(3) Stove polish—pressed squares, manufactured from graphite No. 2551. (2551c.)
(4) Stove polish, dome-lead, manufactured from graphite No. 2551. (2551d.)
- (disseminated.)—Lot 27, range VII. of Buckingham, Ottawa county, Q.—Coll., H. G. Vennor.—Laurentian, A. (4624.)
- (disseminated.)—Lot 20, range VIII. of Buckingham, Ottawa county, Q.—Laurentian, A. (2483.)
(1) Dressed graphite, prepared from graphite No. 2483. (2483a.)
(2) do do do do (2483b.)
- (vein.)—Lot 10, range I. of South Burgess, Leeds county, O.—Laurentian, A. (798.)
(1) Dressed graphite, prepared from graphite No. 798. (798a.)
- (vein.)—Darling, Lanark county, O.—Laurentian, A. (803.)
- (disseminated.)—Lot 21, range VI. of North Elmsley, Lanark county, O.—Laurentian, A. (5469.)
(1) Dressed graphite, prepared from graphite No. 5469. (5469a.)
- (disseminated.)—Lot 34, range VIII. of Denbigh, Addington county, O.—Laurentian, A. (2462.)
- (disseminated.)—Alkow Harbour, Dean Canal, B.C.—Presented by the Marquis of Lorne, 1883. (622.)
- Friction bearing**, made of Fibre-graphite (wood pulp and graphite).—Presented by J. Fraser Torrance, M.E., 1892. (2568.)

SPECIMENS ILLUSTRATING THE DISTRIBUTION OF GRAPHITE.

Upright table-case 29.— <i>Continued.</i>	<p>Graphite, (disseminated.)—Best's mine, St. John, St. John county, N.B.—Coll., H. P. Brumell, 1891.—Laurentian, A. (2094.)</p> <p>— (disseminated.)—Split-Rock pumbago mine, St. John county, N.B.—Coll., W. Broad, 1878.—Laurentian, A. (3681.)</p> <p>— (disseminated.)—From an opening three-quarters of a mile north of the Split-Rock plumbago mine, St. John county, N.B.—Coll., W. Broad, 1878.—Laurentian, A. (3682.)</p> <p>— (disseminated.)—Lot 9, range V. of Grenville, Argenteuil county, Q.—Presented by F. C. Weldon, 1886.—Laurentian, A. (5286.)</p> <p>— (vein.)—Lot 27, range V. of Buckingham, Ottawa county, Q.—Coll., H. G. Vennor, 1876.—Laurentian, A. (1935.)</p> <p>— (vein.)—Lot 28, range V. of Buckingham, Ottawa county, Q.—Coll., H. G. Vennor, 1876.—Laurentian, A. (2108.)</p> <p>— (vein.)—Lot 27, range VI. of Buckingham, Ottawa county, Q.—Coll., H. G. Vennor, 1876.—Laurentian, A. (3688.)</p> <p>— with pyrite.—Lot 28, range VI. of Buckingham, Ottawa county, Q.—Coll., H. G. Vennor, 1876.—Laurentian, A. (1777.)</p> <p>— (vein.)—Lot 21, range VII. of Buckingham, Ottawa county, Q.—Coll., H. G. Vennor, 1876.—Laurentian, A. (3684.)</p> <p>— (disseminated.)—Lot —, range IX. of Wakefield, Ottawa county, Q.—Presented by E. Trowse, 1886.—Laurentian, A. (5331.)</p> <p>— (disseminated.)—Lot 21, range VI. of North Elmsley, Lanark county, O.—Laurentian, A. (2113.)</p> <p>— (disseminated.)—Lot 34, range VIII. of Denbigh, Addington county, O.—Laurentian, A. (2141.)</p> <p>— (disseminated.)—Skuzzy Creek, near North Bend, west side of the Fraser River, B.C.—Presented by J. W. Mackay, 1890. (5998.)</p>
Table-case 37.	<p>— (vein.)—North half of lot 3, range II. of the Augmentation of Grenville, Argenteuil county, Q.—Coll., C. Robb, 1875.—Laurentian, A. (1778.)</p> <p>— (vein.)—Lot 1, range VI. of the Augmentation of Grenville, Argenteuil county, Q.—Laurentian, A. (1779.)</p> <p>— (vein.)—Lot 4, range VI. of Grenville, Argenteuil county, Q.—Laurentian, A. (1781.)</p> <p>— (vein.)—Miller's mine, lot 10, range V. of Grenville, Argenteuil county, Q.—Laurentian, A. (1782.)</p> <p>— (disseminated.)—Lot 9, range IV. of Grenville, Argenteuil county, Q.—Laurentian, A. (1913.)</p> <p>— Beresford, Terrebonne county, Q.—Laurentian, A. (3518.)</p> <p>— (disseminated.)—Lot 20, range VIII. of Buckingham, Ottawa county, Q.—Coll., H. G. Vennor, 1876.—Laurentian, A. (1767.)</p> <p>— (disseminated.)—Lots 15 and 16, range VI. of Buckingham, Ottawa county, Q.—Coll., H. G. Vennor, 1876.—Laurentian, A. (1768.)</p> <p>— (disseminated.)—Lot 20, range VIII. of Buckingham, Ottawa county, Q.—Coll., H. G. Vennor, 1876.—Laurentian, A. (1770.)</p> <p>— (vein.)—Lot 5, range IX. of Buckingham, Ottawa county, Q.—Coll., H. G. Vennor, 1873.—Laurentian, A. (1772.)</p> <p>— (disseminated.)—Lot 27, range VII. of Buckingham, Ottawa county, Q.—Coll., H. G. Vennor, 1876.—Laurentian, A. (1776.)</p> <p>— (vein.)—Lot 23, range VI. of Buckingham, Ottawa county, Q.—Coll., H. G. Vennor, 1876.—Laurentian, A. (1783.)</p>

SPECIMENS ILLUSTRATING THE DISTRIBUTION OF
GRAPHITE—*Continued.*

- Graphite, (disseminated.)—Lot 27, range VII. of Buckingham, Ottawa county, Q.—Coll., H. G. Vennor, 1876.—Laurentian A. (1784.)
- (disseminated.)—Lot 28, range VI. of Buckingham, Ottawa county, Q.—Presented by W. H. Dickson, Ottawa, 1889.—Laurentian, A. (3687.)
- Lochaber, Ottawa county, Q.—Laurentian, A. (1774.)
- Darling, Lanark county, O.— do (1775.)
- Moore's clearing, lot 21, North Front A, Westmeath, Renfrew county, O.—Coll., W. E. Logan, 1845.—Laurentian, A. (3607.)
- (vein.)—Lot 10, range I. of South Burgess, Leeds county, O.—Coll., C. W. Willimott, 1882.—Laurentian, A. (3686.)
- (disseminated.)—Lot 6, range IX. of Loughborough, Frontenac county, O.—Coll., H. G. Vennor.—Laurentian, A. (1771.)
- (disseminated.)—Fraser River, B.C.—Presented by A. Cowan, 1884. (4941.)
- (disseminated.)—Alkow Harbour, Dean Canal, B.C.—Presented by the Marquis of Lorne, 1884. (3690.)

Table-case
37.—
Continued.

MINERAL ASSOCIATIONS OF GRAPHITE.

- Graphite, calcite, titanite and zircon.—Miller's mine, lot 10, range V. of Grenville, Argenteuil county, Q.—Laurentian, A. (1250.)
- wollastonite, pyroxene and titanite.—Miller's mine, lot 10, range V. of Grenville, Argenteuil county, Q.—Coll., C. W. Willimott, 1878.—Laurentian, A. (1740.)
- calcite, pyroxene and titanite.—Miller's mine, lot 10, range V. of Grenville, Argenteuil county, Q.—Coll., C. W. Willimott, 1878.—Laurentian, A. (1741, 1742.)
- Limestone with graphite and pyroxene.—South half of lot 17, range II. of Grenville, Argenteuil county, Q.—Laurentian, A. (1762.)
- Graphite, calcite, pyroxene and apatite.—North half of lot 21, range VII. of Buckingham, Ottawa county, Q.—Coll., H. G. Vennor; 1876.—Laurentian, A. (1743.)
- Pyroxene with graphite.—North half of lot 21, range VII. of Buckingham, Ottawa county, Q.—Coll., H. G. Vennor, 1876.—Laurentian, A. (1744.)
- Graphite, orthoclase and titanite.—Buckingham, Ottawa county, Q.—Coll., H. G. Vennor, 1876.—Laurentian, A. (1746.)
- orthoclase and hornblende.—North half of lot 21, range VII. of Buckingham, Ottawa county, Q.—Coll., H. G. Vennor, 1876.—Laurentian, A. (1748.)
- calcite and mica.—Lot 21, range VII. of Buckingham, Ottawa county, Q.—Coll., H. G. Vennor, 1876.—Laurentian, A. (1749.)
- and orthoclase.—Lot 27, range V. of Buckingham, Ottawa county, Q.—Coll., H. G. Vennor, 1876.—Laurentian, A. (1752.)
- Pyroxene, graphite and mica.—Lot 24, range V. of Buckingham, Ottawa county, Q.—Coll., H. G. Vennor, 1876.—Laurentian, A. (1753.)
- Graphite and orthoclase.—Lot 25, range IV. of Buckingham, Ottawa county, Q.—Coll., H. G. Vennor, 1876.—Laurentian, A. (1754.)
- Limestone with pyroxene.—Buckingham, Ottawa county, Q.—Coll., H. G. Vennor, 1876.—Laurentian, A. (1755.)
- Orthoclase.—Lot 22, range VII. of Buckingham, Ottawa county, Q.—Coll., H. G. Vennor, 1876.—Laurentian, A. (1757.)

MINERAL ASSOCIATIONS OF GRAPHITE—*Continued.*

- Table-case 37. **Pyroxene.**—Lot 17, range XII. of Buckingham, Ottawa county, Q.—Coll., H. G. Vennor, 1876.—Laurentian, A. (1759.)
- Continued.* **Limestone** with mica.—Lot 21, range VII. of Buckingham, Ottawa county, Q.—Coll., H. G. Vennor, 1876.—Laurentian, A. (1760.)
- Orthoclase** and hornblende.—Lot 21, range VII. of Buckingham, Ottawa county, Q.—Coll., H. G. Vennor, 1876.—Laurentian, A. (1229.)
- quartz and hornblende.—Lot 22, range VII. of Buckingham, Ottawa county, Q.—Coll., H. G. Vennor, 1876.—Laurentian, A. (1766.)
- Gneiss.**—Little Rapids, Portland, Ottawa county, Q.—Coll., H. G. Vennor, 1876.—Laurentian, A. (1764.)
- Magnetite**, graphite and calcite.—Baldwin mine, lot 13, range VI. of Hull, Ottawa county, Q.—Coll., T. C. Weston, 1875.—Laurentian, A. (1751.)
- Hematite** and graphite.—Baldwin mine, lot 13, range VI. of Hull, Ottawa county, Q.—Coll., T. C. Weston, 1875.—Laurentian, A. (1756.)
- Magnetite** and graphite.—Baldwin mine, lot 13, range VI. of Hull, Ottawa county, Q.—Coll., T. C. Weston, 1875.—Laurentian, A. (1765.)
- Tremolite** with graphite.—Tudor, Hastings county, O. (1745.)
- Limestone** with chondrodite and graphite.—South Crosby, Leeds county, O.—Coll., H. G. Vennor.—Laurentian, A. (1747.)

ASBESTUS, SOAPSTONE, POTSTONE, ETC.

Chrysotile, so-called (commercially) asbestos.

- Upright wing-case 22. **Asbestos** (fibrous serpentine, chrysotile).—Big Island, Lake Nicolet, South Ham, Wolfe county, Q.—Coll., C. W. Willimott, 1882.—Cambrian, C 1. (3672.)
- South half of lots 27 and 28, range B. of Coleraine, Megantic county, Q.—Cambrian, C 1. (804.)
- (1) Asbestos mill-board, steam packing, etc., manufactured from asbestos No. 804.—Presented by Ed. Wertheim, 1889. (804a.)
- Scottish Canadian Company's mine, Black Lake, Coleraine, Megantic county, Q.—Coll., E. Coste, 1884.—Cambrian, C 1. (4969.)
- Boston Asbestos Packing Company's mine, lot 27, range V. of Thetford, Megantic county, Q.—Coll., C. W. Willimott, 1882.—Cambrian, C 1. (5341.)
- Johnson's mine, lot 27, range VI. of Thetford, Megantic county, Q.—Coll., C. W. Willimott, 1882.—Cambrian, C 1. (5342.)
- (1) Asbestos, dressed. (5342a.)
- Melbourne quarry, lot 22, range VI. of Melbourne, Richmond county, Q.—Coll., H. Y. L. Brown, 1875.—Cambrian, C 1. (2485.)
- Lot 11, range VIII. of Templeton, Ottawa county, Q.—Coll., Scott Barlow, 1890.—Laurentian, A. (5395.)
- Lot 32, range XI. of Sebastopol, Renfrew county, O.—Presented by A. Parks, 1878.—Laurentian, A. (5556.)
- Lot 7, range XI. of Elzevir, Hastings county, O.—Presented by Joseph James, 1890.—Archean, A. B. (5936.)
- (1) Ground asbestos, used in the manufacture of roofing cement. (5936a.)

ASBESTUS, SOAPSTONE, POTSTONE, ETC.—*Continued.*

Specimens illustrating the distribution of chrysotile are shown in table-case 38, and articles manufactured therefrom in upright table-case 30.

Soapstone or Steatite, compact talc.

Soapstone (steatite, compact talc).—Lot 7, range IV. of Elzevir, Hastings county, O.—Used in the manufacture of roofing cement. (5937.)

Upright
wing-case
22.—
Continued.

(1) Roofing cement, manufactured from ground asbestos (5936a) and soapstone (5937) by Joseph James, Bridgewater, O. (5937a.)

- Copper mine, Eagle Head, Gabarus Bay, Cape Breton county, N.S.—Coll., H. Fletcher, 1875. (4627.)
- Lot 16, range V. of Potton, Brome county, Q.—Cambrian, C 1. (800.)
- Lot 24, range VI. of Potton, Brome county, Q.—Cambrian, C 1. (812.)
- Lot 12, range VII. of Sutton, Brome county, Q.—Pre-Cambrian, B? (813.)
- Lot 24, range IV. of Bolton, Brome county, Q.—Pre-Cambrian, B? (2566.)
- Lot 6, range I. of Garthby, Wolfe county, Q.—Coll., C. W. Willimott, 1889.—Cambrian, C 1. (3599.)

Bucket made of soapstone. (817.)

Potstone or compact chlorite.

Potstone (compact chlorite).—Lot 4, range — of Broughton, Beauce county, Q.—Pre-Cambrian, B? (811.)

- Lot 26, range II. of Bolton, Brome county, Q.—Pre-Cambrian, B? (815.)

Dish made of potstone. (816.)

Fire clay and other refractory minerals.

Altered felsite, suitable for the manufacture of fire-brick.—Watson Brook, Coxheath Hills, Cape Breton county, N.S.—Coll., H. Fletcher, 1875.—Laurentian, A. (2561.)

Fire-clay.—Grand Lake (Little River), Queen's county, N.B.—Presented by G. N. McMann, 1875.—Carboniferous, G. (1132.)

- Dundas, Wentworth county, O.—Coll., R. Bell, 1862.—Silurian, E 2. (819.)
- Souris City, Souris River, Manitoba.—Coll., A. R. C. Selwyn, 1880. (4854.)

Quartz tailings.—Bruce Mines, Lake Huron, O.—Coll., T. C. Weston, 1882.—Huronian, B. (2562.)

(1) Clay used in the manufacture of fire-brick. (2562a.)

(2) Fire-brick made from quartz tailings (2562) in admixture with clay (2562a). (2562b.)

Refractory sandstone.—Lot 20, range I. of Pittsburgh, Frontenac county, O.—Presented by A. Cowan, Kingston, O., 1862.—Cambrian, C 1. (818.)

Kaolin.—Wentworth, Hants county, N.S.—Presented by S. H. Sweet, 1875.—Carboniferous, G 1. (1147.)

The following has temporarily been accommodated in this case :

Orthoclase (microcline?).—Villeneuve mica mine, lot 31, range I. of Villeneuve, Ottawa county, Q.—Presented by L. H. Shirley, 1886.—Laurentian A. (5276.)

SPECIMENS ILLUSTRATING THE DISTRIBUTION OF
CHRYSTOLE OR SO-CALLED (COM-
MERCIALLY) ASBESTUS.

Table-case 38.	<p>Asbestos (fibrous serpentine, chrysotile).—Pisarincove Cove, Lancaster, St. John county, N.B. Coll., L. W. Bailey, 1870.—Pre-Cambrian, A.B. (1568.)</p> <p>— Big Island, Lake Nicolet, South Ham, Wolfe county, Q.—Coll., C. W. Willimott, 1882.—Cambrian, C. (3629-3633.)</p> <p>— Melbourne quarry, lot 22, range VI. of Melbourne, Richmond county, Q.—Coll., H. Y. L. Brown, 1875.—Cambrian, C 1. (3643.)</p> <p>— Shipton, Richmond county, Q.—Coll., J. Richardson, 1847.—Cambrian, C. (3644.)</p> <p>— Johnson's mine, lot 27, range VI. of Thetford, Megantic county, Q.—Coll., C. W. Willimott, 1882.—Cambrian, C. (3634.)</p> <p>— dressed.—Johnson's mine, lot 27, range VI. of Thetford, Megantic county, Q.—Coll., C. W. Willimott, 1882.—Cambrian, C. (3635.)</p> <p>— with magnetite.—Johnson's mine, lot 27, range VI. of Thetford, Megantic county, Q.—Coll., C. W. Willimott, 1882.—Cambrian, C. (3598.)</p> <p>— Boston Asbestos Packing Company's mine, lot 27, range V. of Thetford, Megantic county, Q.—Coll., C. W. Willimott, 1882.—Cambrian, C. (3636.)</p> <p>— with magnetite.—Boston Asbestos Packing Company's mine, lot 27, range V. of Thetford, Megantic county, Q.—Coll., C. W. Willimott, 1882.—Cambrian, C. (3637.)</p> <p>— Kings' mine, lot 26, range V. of Thetford, Megantic county, Q.—Coll., C. W. Willimott, 1882.—Cambrian, C. (3641.)</p> <p>— Senecal's mine, Black Lake, Coleraine, Megantic county, Q.—Coll., E. Coste, 1884.—Cambrian, C. (4966, 4967.)</p> <p>— Lionais' mine, Black Lake, Coleraine, Megantic county, Q.—Coll., E. Coste, 1884.—Cambrian, C. (4968.)</p> <p>— Lot 11, range VIII. of Templeton, Ottawa county, Q.—Coll., S. Earlow, 1890.—Laurentian, A. (5996.)</p> <p>— Lot 7 or 8, range IX. of Litchfield, Pontiac county, Q.—Laurentian, A. (3506.)</p> <p>— Lot 8, range IX. of Ross, Renfrew county, O.—Coll., C. W. Willimott, 1883.—Laurentian, A. (3642.)</p> <p>— North Burgess, Lanark county, O.—Coll., H. G. Vennor, 1873.—Laurentian, A. (3645.)</p> <p>— Lot 7, range XI. of Elzevir, Hastings county, O.—Presented by Joseph James, Bridgewater, O., 1890. (4764.)</p> <p>— Boston Asbestos Packing Company's mine, lot 27, range V. of Thetford, Megantic county, Q.—Coll., C. W. Willimott, 1882.—Cambrian, C 1. (3638.)</p>
Upright table-case 30.	<p>(1) mill-board, manufactured from asbestos No. 3638. (3638a.)</p> <p>(2) steam packing do do do (3638b.)</p> <p>(3) sheeting do do do (3638c.)</p> <p>(4) yarn do do do (3638d.)</p> <p>(5) mitts do do do (3638e.)</p>

Nos. 3638a and b presented by the Boston Asbestos Packing Company; Nos. 3638c and d presented by Dr. Ells; No. 3638e presented by T. Sheridan.

Specimens of this mineral are shown in upright wing-case 22.

MICA.

Biotite or magnesium-iron mica.

Biotite.—Lot 38, range I. of Bouchette, Ottawa county, Q.—Presented by P. Grace, 1891.—Laurentian, A. (821.)

Upright
wing-case
23.

Muscovite or potassium mica.

- Muscovite.**—Villeneuve mica mine, lots 31 and 32, range I. of Villeneuve, Ottawa county, Q.—Presented by W. A. Allan, 1885.—Laurentian, A. (5229.)
- Lots 4 and 5, range XI. of Miller, Frontenac county, O.—Presented by R. C. W. McCuaig, 1891.—Laurentian, A. (869.)
- At the junction of Canoe River with the Coldwater River, B.C.—Coll., J. McEvoy, 1891. (867.)
- One hundred and twenty miles north-east of Clinton, B.C.—Presented by F. W. Foster, 1885. (5251.)
- Skuzzy Creek, near North Bend, west side of Fraser River, B.C.—Presented by J. W. Mackay, 1890. (5999.)

Phlogopite or magnesium mica.

- Phlogopite.**—Lot 1, range II. of the Augmentation of Grenville, Argenteuil county, Q.—Coll., C. W. Willimott, 1889.—Laurentian, A. (792.)
- Lot 9, range VI. of Grenville, Argenteuil county, Q.—Laurentian A. (794.)
- Lot 17, range VII. of Grenville, Argenteuil county, Q.—Laurentian, A. (868.)
- Lot 1, range X. of Grenville, Argenteuil county, Q.—Laurentian, A. (788.)
- Lot 19, range VIII. of Portland, Ottawa county, Q.—Presented by Thomas Daly, 1887.—Laurentian, A. (5432.)
- South half of lot 10, range X. of Templeton, Ottawa county, Q.—Coll., C. W. Willimott, 1882.—Laurentian, A. (2487.)
- McLaurin's mine, lot 9, range XI. of Templeton, Ottawa county, Q.—Presented by J. McLaurin, 1887.—Laurentian, A. (5442.)
- Hull mica mine, north half of lot 10, range V. of Hull, Ottawa county, Q.—Presented by E. B. Haycock, 1891.—Laurentian, A. (990.)
- Lot 9, range XII. of Hull, Ottawa county, Q.—Presented by Thomas Warwicker, 1882.—Laurentian, A. (2454.)
- Lot 13, range XV. of Hull, Ottawa county, Q.—Presented by C. E. D. Chubbuck, 1890. Laurentian, A. (4865.)
- Lot 1, range IV. of Masham, Ottawa county, Q.—Laurentian, A. (4862.)
- Aylwin, Ottawa county, Q.—Presented by S. R. Brook, 1889.—Laurentian, A. (787.)
- Lot 22, range II. of Cawood, Pontiac county, Q.—Laurentian, A. (5576.)
- South Burgess, Leeds county, O.—Presented by Capt. Thorpe.—Laurentian, A. (865.)
- Lot 6, range VIII. of North Burgess, Lanark county, O.—Coll., C. W. Willimott, 1879.—Laurentian, A. (2540.)
- North shore of Hudson Strait, opposite Upper Savage Island, Baffin Land.—Coll., R. Bell, 1875.—Laurentian, A. (5344.)

VII.—BRINES, SALT, AND MINERAL WATERS.

BRINES AND SALT.

Upright
wing-case
24.

- Brine.**—Baddeck, Victoria county, Cape Breton, N.S.—Coll., H. Fletcher, 1875.
—Carboniferous, G 1. (2591.)
- Salt Springs, two and a quarter miles east of Springhill Mines, Cumberland county, N.S.—Coll., S. Barlow, 1875.—Carboniferous, G 1. (2592.)
- Salt.**—Manufactured from a brine found at Sussex, King's county, N.B.—Coll., L. W. Bailey, 1875. (2593.)
- Brine.**—Kincardine, Bruce county, O.—Silurian, E 5. (2440.)
(1) Common salt manufactured from brine No. 2440. (2440a.)
(2) Fine do do do do (2440b.)
Bruce Salt Company, Kincardine, O.
- Salt (fine).**—Manufactured from a brine found at Kincardine, Bruce county, O. Rightmyer's Salt Works, Kincardine, O. (2441.)
- (common).—Manufactured from a brine found at Kincardine, Bruce county, O. (2442.)
(1) Fine salt, manufactured from the same brine as No. 2442.—Gray & Scott, Kincardine, O. (2442a.)
- Brine.**—Seaforth, Huron county, O.—Silurian, E 5. (2587.)
(1) Coarse salt, manufactured from brine No. 2587. (2587a.)
(2) Common fine salt do do do (2587b.)
(3) Ground table salt do do do (2587c.)
Coleman & Gouinlock, Seaforth, O.
- Salt (coarse).**—Manufactured from a brine found at Clinton, Huron county, O. (2588.)
(1) Fine salt, manufactured from the same brine as No. 2588. (2588a.)
(2) Dairy salt, manufactured from the same brine as No. 2588. (2588b.)
Stapleton Salt Works, Clinton, O.
- Brine.**—Goderich, Huron county, O.—Silurian, E 5. (2589.)
(1) Fine salt, manufactured from brine No. 2589.—Tecumseh Salt Works, Goderich, O. (2589a.)
- Goderich, Huron county, O.—Silurian, E 5. (2590.)
(1) Coarse salt, manufactured from brine No. 2590. (2590a.)
(2) Fine do do do do (2590b.)
International Salt Works, Goderich, O.
- Salt (fine).**—Manufactured from a brine found at Goderich, Huron county, O.—Samuel Platt, Goderich, O. (2594.)
- Brine.**—Port Franks, Bosanquet, Lambton county, O. (2596.)
(1) Coarse salt, manufactured from brine No. 2596.—Williams & Murray, Port Franks, O. (2596a.)
- Salt deposit,** from the surface at springs three miles north of Bell River, and a mile and a quarter back from the shore of Lake Winnipegosis, Manitoba.—Coll., D. B. Dowling, 1889. (2557.)
- Saline deposit,** from the bed of a dried up lake near Maple Creek, district of Assiniboia, N.W.T.—Coll., R. G. McConnell, 1883, (5564.)
- From a lake thirty-three miles east of Wood Mountain Post, Traders Road, district of Assiniboia, N.W.T.—Coll., G. M. Dawson, 1874. (5565.)

BRINES AND SALT—*Continued.*

- Salt.**—Salt River, one hundred miles north-west of Fort Chipweyan, Lake Athabasca, N.W.T.—Coll., John Macoun, 1875.—Devonian, F. (5204.)
- Brine.**—Nanaimo, Vancouver Island, B.C.—Coll., J. Richardson, 1872.—Cretaceous, K. (5205.)

Upright
wing-case
24.—
Continued.

MINERAL WATERS.

Agreeably with the classification here adopted,—that of Dr. T. Sterry Hunt,—

Class I.—Includes saline waters containing chloride of sodium, with large portions of chlorides of calcium and magnesium, sometimes with sulphates. The carbonates of lime and magnesia are either present only in very small quantities, or are altogether wanting.

Class II.—Includes a large number of saline waters, which differ from the first in containing besides the chlorides of sodium, calcium and magnesium, considerable portions of bicarbonates of lime and magnesia, the latter carbonate generally predominating. Small quantities of oxide of iron, and of baryta and strontia, are frequently present.

Class III.—Includes those saline waters which contain, besides chloride of sodium, a portion of carbonate of soda, with bicarbonates of lime and magnesia. Small amounts of baryta, strontia, and of boracic and phosphoric acids, are often present in these waters, and bromides and iodides are very rarely wanting.

Class IV.—Differs from the last in containing but a small proportion of chloride of sodium, while the carbonate of soda predominates.

Class V.—Includes acid waters, which are remarkable for containing a large proportion of free sulphuric acid, with sulphates of lime, magnesia, protoxide of iron, and alumina.

Class VI.—Includes some neutral saline waters in which the sulphates of lime, magnesia, and the alkalis predominate, chlorides being present only in very small amounts.

Waters of the first class.

- Mineral water.**—Seigniory of Rivière Ouelle, Kamouraska county, Q. (2597.)
- Bay St. Paul, Charlevoix county, Q. (2598.)
- Saline spring, Eastman's Springs, Gloucester, Carleton county, O. (2599.)
- McDonell's spring, Hallowell, Prince Edward county, O. (2600.)
- Hubbs' spring do do (2601.)
- Upper well, Kingston, Frontenac county, O. (2602.)
- Lower well do do (2603.)
- Lot 32, range III. of Whitby, Ontario county, O. (2604.)
- Ancaster, Wentworth county, O. (2605.)

Waters of the second class.

- Mineral water.**—Trudel's spring, Ste. Geneviève, Champlain county, O. (2606.)
- Ferry spring do do (2607.)
- Caxton, St. Maurice county, Q. (2608.)
- St. Léon, Maskinongé county, Q. (2609.)

MINERAL WATERS—Continued.

Waters of the second class—Continued.

Upright	Mineral water —Lanoraie, Joliette county, Q. (2610.)
wing-case	— Boucher's spring, Berthier, Berthier county, Q. (2611.)
24.—	— Aurora spring, Point-du-Jour, L'Assomption county, Q. (2612.)
Continued.	— Sulphur spring, Pike River, Sabrevois, Iberville county, Q. (2613.)
	— Saline spring do do do (2614.)
	— Loizeau's spring, Baie du Febvre, Nicolet county, Q. (2615.)
	— Lefort's spring do do (2616.)
	— Lot 9, range X. of Alfred, Prescott county, O. (2617.)
	— Intermittent spring, Caledonia, Prescott county, O. (2618.)
	— Plantagenet spring, Plantagenet, Prescott county, O. (2619.)
	— Georgian spring do do (2620.)
	— McIntosh's spring do do (2621.)
	— Borthwick's spring, lot 19, range IV. of Gloucester, Carleton county, O. (2622.)
	— Ancaster, Wentworth county, O. (2623.)
	— St. Catharines, Lincoln county, O. (2624.)

Waters of the third class.

Mineral water. —Couchène's spring, Baie du Febvre, Nicolet county, Q. (2625.)
— Houle's spring do do (2626.)
— Lot 25, range III. of Rawdon, Montcalm county, Q. (2627.)
— Providence spring, St. Hyacinthe, St. Hyacinthe county, Q. (2628.)
— Saline spring, Varennes, Verchères county, Q. (2629.)
— Gas spring do do (2630.)
— Belœil, Verchères county, Q. (2631.)
— Cherrier's spring, Chambly, Chambly county, Q. (2632.)
— Gas spring, Caledonia, Prescott county, O. (2633.)
— Saline spring do do (2634.)
— White sulphur spring do (2635.)
— Lot 9, range VI. of Hawkesbury, Prescott county, O. (2636.)
— Sulphur spring, Eastman's Springs, Gloucester, Carleton county, O. (2637.)
— Gillan's spring, lot 10, range II. of Fitzroy, Carleton county, O. (2638.)

Waters of the fourth class.

Mineral water. —Marcotte's Mills, Jacques Cartier River, Portneuf county, Q. (2639.)
— Méthot's Mills, Lotbinière county, Q. (2640.)
— Hébert's springs, Nicolet, Nicolet county, Q. (2641.)
— Jetté's spring, Chambly, Chambly county, Q. (3729.)
— St. Ours, Richelieu county, Q. (3730.)
— Miller's spring, Henryville, Iberville county, Q. (3731.)
— Lot 27, range III. of Rawdon, Montcalm county, Q. (3732.)

MINERAL WATERS—*Continued.*

Waters of the fifth class.

- Mineral water.**—McKinley's spring, Niagara, Lincoln county, O. (3733.) Upright wing-case
 — Chippewa, Welland county, O. (3734.) 24.—
 — Sour spring, Indian Reserve, Tuscarora, Brant county, O. (3735.) *Continued.*

Waters of the sixth class.

- Mineral water.**—Young's spring, Hamilton, Wentworth county, O. (3736.)
 — Lot 3, range XII. of Charlotteville, Norfolk county, O. (3737.)
 — Blue spring, lot 53 of Brant, Bruce county, O. (3738.)

VIII.—MINERALS APPLICABLE TO THE FINE ARTS AND JEWELLERY.

Miscellaneous Ornamental Minerals and Rocks.

- Amethyst.**—Amethyst Harbour, Thunder Bay, Lake Superior, O.—Coll., R. Bell, 1875.—Cambrian, C 1. (843.) Upright wing-case
Agate.—Scot's Bay, King's county, N.S.—Coll., C. W. Willimott, 1883.—Triassic, H. (4819.) 25.
 — cut and polished (two specimens).—From the same locality as No. 4819.—Coll., C. W. Willimott, 1883.—Triassic, H. (4820.)
 — cut and polished.—Victoria Harbour, King's county, N.S.—Coll., C. W. Willimott, 1883.—Triassic, H. (4927.)
 — Horseshoe Cove, Cape d'Or, Cumberland county, N.S.—Coll., C. W. Willimott, 1888.—Triassic, H. (5680.)
 — (moss).—Cut and polished.—Two Islands, Cumberland county, N.S.—Coll., C. W. Willimott, 1888.—Triassic, H. (5715.)
 — cut and polished.—Michipicoten Island, Lake Superior, O.—Cambrian, C 1. (826.)
 — (in trap).—Michipicoten Island, Lake Superior, O.—Cambrian, C 1. (2574.)
 — cut and polished.—Thunder Bay, Lake Superior, O.—Cambrian, C 1. Framed tablet of 154 specimens set in plaster. (830.)
 — cut and polished (two specimens).—Thunder Bay, Lake Superior, O.—Cambrian, C 1. (844.)
 — cut and polished.—From mountains at the head of Nicoamen River, B.C.—Coll., G. M. Dawson, 1889. (1529.)
 — cut and polished.—Stuart Lake, B.C.—Coll., G. M. Dawson, 1879. (5555.)
 — cut and polished.—Vicinity of Kamloops, B.C.—Coll., G. M. Dawson, 1879. (5719.)
 — Savona Mountain, south of Savona station, C. P. R., B.C.—Coll., G. M. Dawson, 1890. (5973.)
 — cut and polished (four specimens).—From the same locality as No. 5973.—Coll., G. M. Dawson, 1890. (5974.)
 — cut and polished (four specimens).—Queen Charlotte Islands, B.C.—Presented by the Marquis of Lorne, 1883. (4645.)
Prase (var. of quartz).—Cut and polished.—Savona Mountain, south of Savona station, C. P. R., B.C.—Coll., G. M. Dawson, 1890. (1388.)

Miscellaneous Ornamental Minerals and Rocks—Continued.

- Upright wing-case
25.—
Continued.
- Jasper.**—Cut and polished.—Grindstone Island, Magdalen Islands, Q.—Coll., J. Richardson, 1880. (2581.)
— cut and polished (three specimens).—Rivière Ouelle, Kamouraska county, Q.—Coll., J. Richardson. (855.)
— cut and polished.—Lot 15, range X. of Hull, Ottawa county, Q.—Coll., A. E. Barlow, 1883.—Laurentian, A. (4656.)
— cut and polished.—From the same locality as No. 4656.—Coll. C. W. Willimott, 1883.—Laurentian, A. (5316.)

Porcellanite.—Two Islands, Cumberland county, N.S.—Coll., C. W. Willimott, 1883. (5533.)

(The following eight named are mounted on glass in a frame.)

- Amethyst.**—Cut and polished (twenty-one specimens).—Thunder Bay, Lake Superior, O. (854.)
Jasper, agate, gneiss and labradorite, mosaic of, (857.)
Agates, mosaic of, (858.)
Jasper, agate, gneiss, epidote and labradorite, mosaic of, (859.)
Jasper, agate, do heliotrope do do (2498.)
Agate.—Seal and impression from same. (2499.)
Heliotrope do do (2500.)
Labradorite.—Cut and polished, in imitation of caterpillars, &c. (nine specimens). (2501.)

(The following six named are mounted on glass in a frame.)

- Labradorite.**—Cut and polished (nine specimens).—Labrador. (2491.)
Jasper conglomerate.—Cut and polished.—Bruce Mines, Lake Huron, O. (2492.)
Epidote.—Cut and polished.—Shickshock Mountains, Gaspé, Q. (2493.)
Perthite. do North Burgess, Lanark county, O. (2495.)
Agates and carnelian.—Cut and polished (ten specimens).—Lake Superior, O. (2496.)
Gneiss.—Cut and polished (six specimens).—Ramsay, Lanark county, O. (2497.)
Potstone (compact chlorite), vase of.—Lot 26, range II. of Bolton, Brome county, Q. (674.)
Labradorite, vase of.—Grenville, Argenteuil county, Q. (846.)
Lithographic stone, vase of.—Island of Anticosti, Q. (847.)
Jasper conglomerate, vase of.—Bruce Mines, Lake Huron, O. (848.)
Gaspé pebbles.—Gaspé, Gaspé county, Q.—Coll., T. C. Weston. (5262.)
Perthite (interlaminated orthoclase and albite).—Lot 3, range VI. of North Burgess, Lanark county, O.—Laurentian, A. (836.)
— cut and polished (four specimens).—From the same locality as No. 836. (822.)
Albite (peristerite, Thom.).—Cut and polished (five specimens).—Lot 19, range IX. of Bathurst, Lanark county, O.—Laurentian, A. (824.)
Labradorite.—Cut and polished.—Labrador.—Laurentian, A. (841.)
Wilsonite.—Cut and polished.—Bathurst, Lanark county, O.—Laurentian, A. (834.)
Sodalite.—Cut and polished.—Vicinity of Ice River, a branch of the Beaver-foot River, south of Kicking Horse Pass, Rocky Mountains, B.C.—Coll., G. M. Dawson, 1884. (5370.)
Nephrite (jade).—From near old Indian village, Lytton, B.C. (5736–5740.)
— Lewis River, a tributary of the Yukon River, N.W.T. (5741–5745.)

NOTE.—Of the foregoing Nos. 5736–5738 and 5741–5745 were collected by Dr. G. M. Dawson (1887, 1888), and Nos. 5739 and 5740, by Dr. B. J. Harrington (1888).

Miscellaneous Ornamental Minerals and Rocks—Continued.

- Slate** from Danville, Shipton, Richmond county, Q., inlaid with serpentine and limestone. (551.)
- inlaid with perthite and peristerite in imitation of a butterfly—body made of labradorite. (853.)
- (The following ten specimens are grouped on glass on wooden rest.)
- Serpentine**.—Cut and polished.—Melbourne, Richmond county, Q. (5263.)
- Jasper conglomerate**.—Cut and polished.—Bruce Mines, Lake Huron, O. (5264.)
- Gneiss**.—Cut and polished.—Ramsay, Lanark county, O. (5265.)
- Porphyry** do Grenville, Argenteuil county, Q. (5266.)
- Wilsonite** do Bathurst, Lanark county, O. (5267.)
- Serpentine** do Orford, Sherbrooke county, Q. (5268.)
- Limestone** do Madoc, Hastings county, O. (5269.)
- Gneiss** do Grenville, Argenteuil county, Q. (5270.)
- Epidote** do Shickshock Mountains, Gaspé county, Q. (5271.)
- Labradorite** do Labrador. (5272.)
- Porphyritic pebble**.—Schooner Pond beach, Cape Breton county, N.S. (4648.)
- Porphyry**.—Cut and polished.—Lot 9, range— of the Augmentation of Grenville, Argenteuil county, Q.—Laurentian, A. (2556.)
- cut and polished.—Lot 4, range VI. of Grenville, Argenteuil county, Q.—Laurentian, A. (2558.)
- cut and polished.—Lot 8, range VIII. of Chatham, Argenteuil county, Q.—Laurentian, A. (2490.)
- inlaid cross.—From the same locality as No. 2490. (2488.)
- cut and polished.—Lot 3, range V. of Grenville, Argenteuil county, Q.—Laurentian, A. (5369.)
- cut and polished.—South side of Desbarat's location, Lake Superior, O.—Coll., W. E. Logan, 1846. (4928.)
- Alabaster**, (gypsum) cross of.—Hillsborough, Albert county, N.B.—Coll., C. W. Willimott, 1890. (2482.)
- Serpentine**.—Polished (four specimens).—Templeton, Ottawa county, Q.—Presented by A. Taylor, Ottawa, 1886.—Laurentian, A. (832.)
- Serpentine limestone**.—Texada Island, B.C.—Coll., G. M. Dawson, 1875.—Carboniferous, G. Four-inch cube, polished. (2489.)
- Red granite**, small column of.—Polished.—St. George, Charlotte county, N.B.—Presented by the Bay of Fundy Red Granite Company, 1875. (2559.)
- Amethyst**, associated with fluor coated with pyrite.—McKenzie River, Thunder Bay, Lake Superior, O.—Coll., R. Bell, 1875.—Huronian, B. (5144.)
- Jasper**.—Cape Sharp, Cumberland county, N.S.—Coll., C. W. Willimott, 1888.—Triassic, H. (5678.)
- From the same locality as No. 5678, but differing in colour.—Coll., C. W. Willimott, 1888.—Triassic, H. (5721.)
- Lot 15, range X. of Hull, Ottawa county, Q.—Coll., C. W. Willimott, 1883.—Laurentian, A. (2448.)
- Lot 6, range I. of Grenville, Argenteuil county, Q.—Laurentian, A. (4657.)
- Jasper conglomerate**.—Bruce Mines, Lake Huron, district of Algoma, O.—Coll., R. Bell, 1875.—Huronian, B. (863.)
- Rock Lake, Thessalon River, district of Algoma, O.—Coll., G. F. Lount, 1876.—Huronian, B. (4651.)
- Quartzite**, polished.—St. Joseph Island (north shore), Lake Huron, O.—Presented by C. Chapman, 1889.—Huronian, B. (3683.)

Upright
wing-case
25.—
Continued.

Upright
wing-case
26.

Miscellaneous Ornamental Minerals and Rocks—Continued.

- Upright wing-case 26.—
Continued.
- Banded chert.**—Thunder Bay, Lake Superior, O. (828.)
- Albite.**—Villeneuve mica mine, lot 31, range I. of Villeneuve, Ottawa county, Q.—Coll., C. W. Willimott, 1886.—Laurentian, A. (5468.)
- Huronite,** polished.—Timber limit No. 90, a quarter of a mile north of Murphy Lake, district of Algoma, O.—Coll., A. E. Barlow, 1891.—Huronian, B. (995.)
- Wilsonite.**—Lot 27, range VIII. of Portland East, Ottawa county, Q.—Coll., J. F. Torrance, 1885.—Laurentian, A. (4655.)
- Serpentine,** polished (four specimens).—Mount Albert, Shickshock Mountains, Gaspé county, Q.—Coll., J. Richardson, 1858. (4654.)
- polished (five specimens).—Lot 12, range XII. of Orford, Sherbrooke county, Q.—Coll., J. Richardson.—Cambrian, C 1. (2503.)
- polished (five specimens).—Brompton Lake, Orford, Sherbrooke county, Q.—Cambrian, C 1. (4650.)
- polished.—Lot 26, range II. of Grenville, Argenteuil county, Q.—Coll., C. W. Willimott, 1885.—Laurentian, A. (805.)
- polished.—Lot 2, range VIII. of North Burgess, Lanark county, O.—Presented by W. J. Morris, Perth, O., 1875.—Laurentian, A. (4659.)
- polished.—North Burgess, Lanark county, O.—Laurentian, A. (4660.)
- Rensselaerite.**—Lot 14, range IX. of Hull, Ottawa county, Q.—Coll., C. W. Willimott, 1885.—Laurentian, A. Dressed block, 12 by 12 by 6 inches. (5363.)
- Limestone conglomerate,** polished.—Trois Pistoles, Temiscouata county, Q.—Cambrian, C. (4649.)
- Limestone,** polished.—Hampstead, Queen's county, N.B.—Coll., L. W. Bailey, 1871.—Carboniferous, G 1. (2575.)
- polished.—St. Joseph, Beauce county, Q.—Cambrian, C 1. (838.)
- polished.—Lot 21, range III. of Leslie, Pontiac county, Q.—Coll., H. G. Vennor, 1876.—Laurentian, A. (4652.)
- polished.—Arnprior, Renfrew county, O.—Laurentian, A. (850.)
- polished.—West side of the Gatineau River, Wakefield (?), Ottawa county, Q.—Laurentian, A. (5032.)
- polished (three specimens).—Red Rock, Nipigon Bay, Lake Superior, O.—Coll., E. D. Ingall, 1884.—Cambrian, C. (5033.)
- polished (two specimens).—Echo Lake, district of Algoma, O.—Presented by the Warmington Stone and Marble Co., Garden River, O., 1891.—Huronian, B. (347.)
- polished.—Garden River, district of Algoma, O.—Presented by the Warmington Stone and Marble Company, Garden River, O., 1891. (376.)
- Gneiss.**—Lot 3, range V. of Grenville, Argenteuil county, Q.—Laurentian, A. (4658.)
- Diorite.**—Cut and polished.—Acton, Bagot county, Q. (842.)

Lithographic stone.

- Lithographic stone.**—Lot 7, range IV. of Marmora, Hastings county, O.—Cambro-Silurian, D 1. (864.)
- (1) Lithographic stone (864) on which is engraved facsimile autographs of all the governors of Canada, both French and English, from the time of Champlain, in 1612, to that of Lord Monck, in 1862; with the exception of two of the French governors in the first half of the seventeenth century. (864a.)
- (2) Lithographic stone (864) on which is engraved a map. (864b.)

Lithographic stone—*Continued.*

- Lithographic stone**—Lot 14, range XV. of Harvey, Peterborough county, O.—Cambro-Silurian, D 1. (2502.)
- Lot '31, ranges I. and II. of Brant, Bruce county, O.—Silurian, E 5. (856.)
- (1) Lithographic stone (856) on which is engraved a Bank cheque. (856a.)
- (2) Lithographic stone (856) on which is engraved a vignette of an Indian chief. (856b.)
- (3) Lithographic stone (856) on which is engraved a drawing of "Eozoon Canadense." (856c.)
- Inverhuron Quarries, Inverhuron, Bruce county, O. (4647.)

Upright
wing-case
26.—
Continued.

The following series of ornamental stones were cut, polished and presented by C. F. Willimott & Co., of Ottawa.

- Actinolite in quartz** (Thetis hair stone).—Hull, Ottawa county, Q. (5902.)
- Agate**.—Two Islands, Cumberland county, N.S. (5891, 5897.)
- Cape d'Or do do (5893, 5901.)
- Cape Spencer do do (5908.)
- Blomidon, King's county, N.S. (5894.)
- Scot's Bay do do (5904.)
- Templeton, Ottawa county, Q. (5905.)
- Lake Superior, district of Thunder Bay, O. (5924.)
- Albite**.—Villeneuve, Ottawa county, Q. (5880.)
- Ross, Renfrew county, O. (5882.)
- Amazon stone**.—Wakefield, Ottawa county, Q. (5876.)
- Amethyst**.—Lake Superior, district of Thunder Bay, O. (5887.)
- Asteriated quartz**.—Wakefield, Ottawa county, Q. (5877.)
- Aventurine felspar**.—Sebastopol, Renfrew county, O. (5872.)
- Ross, Renfrew county, O. (6532.)
- Breccia**.—Grenville, Argenteuil county, Q. (5928.)
- Banded chert**.—James Bay, Hudson Bay. (5923.)
- Chlorastrolite**.—Lake Superior. (5881.)
- Garnet**.—Stikeene River, B.C. (5886.)
- Wakefield, Ottawa county, Q. (5889.)
- Heliotrope**.—Two Islands, Cumberland county, N.S. (5906.)
- Hornstone**.— do do do (5910.)
- Jasper**.—Fisherman's Cove do do (5895.)
- Two Islands do do (5898, 5900.)
- Partridge Island do do (5915.)
- Cape Sharp do do (5914, 5919, 5920.)
- Gaspé, Gaspé county, Q. (5935.)
- Hull, Ottawa county, Q. (5896, 5926.)
- Hull, Ottawa county, Q. (5917, 5921.)
- Bruce Mines, Lake Huron, district of Algoma, O. (5913.)
- Mamainse, Lake Superior, do (5540.)
- Cape Jones, Hudson Bay. (5918.)
- Jasper agate**.—Two Islands, Cumberland county, N.S. (5925.)
- Jasper conglomerate**.—Bruce Mines, Lake Huron, district of Algoma, O. (5912.)
- Labradorite**.—Paul Island, Labrador. (5875.)

Table-case
69.

Ornamental stones, cut and polished—Continued.

Table-case	Serpentine limestone —Grenville, Argenteuil county, Q. (5933.)
69.--	— (Eozoon Canadense).—Petite Nation, Ottawa county, Q. (5934.)
Continued.	Limonite .—Londonderry, Colchester county, N.S. (5883.)
	Microcline .—Sebastopol, Renfrew county, O. (5885.)
	Moss agate .—Two Islands, Cumberland county, N.S. (5899, 5909.)
	— Fisherman's Cove do (5903.)
	— Partridge Island do (5916.)
	Obsidian .—Cape d'Or do (5890.)
	Orthoclase .—Wakefield, Ottawa county, Q. (5873.)
	Oligoclase? —Psquandeburg Island, (near Parry Sound) Georgian Bay, Lake Huron, O. (5884.)
	Peristerite .—Bromley, Renfrew county, O. (6533.)
	Perthite .—North Burgess, Lanark county, O. (5870, 5871.)
	Porcellanite .—Two Islands, Cumberland county, N.S. (5892, 5907.)
	Porphyry .—Grenville, Argenteuil county, Q. (5911.)
	— Near Onaping, district of Nipissing, O. (5927.)
	Pyralloite .—Grenville, Argenteuil county, Q. (5929.)
	— Hull, Ottawa county, Q. (5930.)
	Banded quartz —Wakefield, Ottawa county, Q. (5922.)
	Retinite (Chemawinitite).—Cedar Lake, district of Saskatchewan, N.W.T. (5551.)
	Scapolite .—Augmentation of Grenville, Argenteuil county, Q. (5878.)
	Serpentine .—Portland, Ottawa county, Q. (5931.)
	— Templeton do (5932.)
	Sodalite .—Ice River, branch of the Beaver-foot River, south of Kicking Horse Pass, Rocky Mountains, B.C. (5874.)
	Thompsonite .—Lake Superior, district of Thunder Bay, O. (5879.)
	Tourmaline .—Wakefield, Ottawa county, Q. (5888.)

IX.—MINERALS EMPLOYED, WITH OR WITHOUT PREVIOUS PREPARATION, AS FERTILIZERS.**Apatite, phosphate of lime.**

Upright	Apatite .—Lot 15, range V. of Grenville, Argenteuil county, Q.—Coll., C. W. Willimott, 1887.—Laurentian, A. (807.)
wing-case	— Cameron's mine, Lochaber, Ottawa county, Q.—Presented by W. C. Edwards, 1883.—Laurentian, A. (2538.)
27.	— Emerald mine, lot 19, range XII of Buckingham, Ottawa county, Q.—Coll., J. F. Torrance, 1883.—Laurentian, A. (949.)
	— Spring mine, lot 9, range X. of Templeton, Ottawa county, Q.—Coll., C. W. Willimott, 1882.—Laurentian, A. (1153.)
	— McLaurin's mine, lot 10, range XI. of Templeton, Ottawa county, Q.—Coll., C. W. Willimott, 1883.—Laurentian, A. (5031.)
	— McLaurin's mine, lot 11, range XI. of Templeton, Ottawa county, Q.—Coll., C. W. Willimott, 1882.—Laurentian, A. (1128.)
	— Lot 22, range XIII. of Templeton, Ottawa county, Q.—Presented by F. Fooks, 1882.—Laurentian A. (1171.)
	— North Star mine, lot 18, range VII. of Portland East, Ottawa county, Q.—Coll., J. F. Torrance, 1883.—Laurentian, A. (978.)

Apatite, phosphate of lime—*Continued.*

- Apatite**—Dugway pit, High Rock mine, lot 7, range VIII. of Portland West, Ottawa county, Q.—Coll., J. F. Torrance, 1883.—Laurentian, A. (1024.)
- Ed. McAndrew's pit, Star Hill mine, lot 8, range VIII. of Portland West, Ottawa county, Q.—Presented by Wm. McIntosh, 1883.—Laurentian, A. (3741.)
- Bonanza pit, Star Hill mine, lot 7, range IX. of Portland West, Ottawa county, Q.—Presented by Wm. McIntosh, 1883.—Laurentian, A. (3742.)
- Hunter's pit, Star Hill mine, lot 7, range IX. of Portland West, Ottawa county, Q.—Presented by Wm. McIntosh, 1883.—Laurentian, A. (3743.)
- Smith's pit, Star Hill mine, lot 9, range VIII. of Portland West, Ottawa county, Q.—Presented by Wm. McIntosh, 1883.—Laurentian, A. (3744.)
- Barber's mine, lot 17, range XVI. of Hull, Ottawa county, Q.—Coll., C. W. Willimott, 1883.—Laurentian, A. (951.)
- Haldane's mine, lot 12, range I. of Wakefield, Ottawa county, Q.—Coll., J. F. Torrance, 1883.—Laurentian, A. (744.)
- Wilson's mine, lot 17, range II. of Wakefield, Ottawa county, Q.—J. F. Torrance, 1883.—Laurentian, A. (1207.)
- Moore's mine, lot 18, range II. of Wakefield, Ottawa county, Q.—Coll., J. F. Torrance, 1883.—Laurentian, A. (143.)
- Lot 24, range IV. of Wakefield, Ottawa county, Q.—Coll., C. W. Willimott, 1883.—Laurentian, A. (959.)
- Harris' mine, lot 30, range IX. of Wakefield, Ottawa county, Q.—Coll., J. F. Torrance, 1883.—Laurentian, A. (953.)
- Lots 11 and 12 (west half), range VII. of North Burgess, Lanark county, O.—Laurentian, A. (513.)
- (1) Apatite ground for conversion into superphosphate. (513a.)
- (2) Superphosphate of lime prepared from 513a. (513b.)
- Presented by A. Cowan, Brockville Chemical and Superphosphate Works, 1875.
- Lot 16, range III. of North Burgess, Lanark county, O.—Coll., H. G. Vennor, 1871.—Laurentian, A. (785.)
- Lot 2, range VIII. of North Burgess, Lanark county, O.—Coll., H. G. Vennor, 1873.—Laurentian, A. (956.)
- Lot 9, range V. of North Burgess, Lanark county, O.—Laurentian, A. (666.)
- North Elmsley, Lanark county, O.—Laurentian, A. (774.)
- green.—Lot 25, range VIII. of North Elmsley, Lanark county, O.—Laurentian, A. (781.)
- red.—Lot 25, range VIII. of North Elmsley, Lanark county, O.—Laurentian, A. (1020.)
- Sebastopol, Renfrew county, O.—Presented by F. Fooks, 1882.—Laurentian, A. (3705.)
- Lot 1, range XVII. of Bedford, Frontenac county, O.—Coll., H. G. Vennor, 1871.—Laurentian, A. (786.)
- Lot 14, range VI. of Storrington, Frontenac county, O.—Presented by W. J. Morris, 1877.—Laurentian, A. (2539.)
- Lot 21, range XV. of Storrington, Frontenac county, O.—Coll., H. G. Vennor, 1875.—Laurentian, A. (957.)
- Lot 28, range I. of Hinchinbrook, Frontenac county, O.—Presented by J. P. Donnely, 1875.—Laurentian, A. (958.)

Upright
wing-case
27.—
Continued.

Specimens illustrating the distribution of apatite are shown in table-cases 34 and 35 (in part), and the mineral associations of apatite are shown in table-cases 35 (in part) and 36 and in upright table-cases 27 and 28.

Phosphatic rock.

Upright
wing-case
27.—
Continued.

- Phosphatic rock.**—Mouth of Macintosh Brook, north shore of East Bay, Cape Breton county, N.S. (693.)
— Rivière Ouelle, Kamouraska county, Q.—Cambrian, C. (952.)
— Wilson River, section 18, township 25, range XX. west of the principal meridian, Manitoba.—Coll., J. B. Tyrrell, 1887. (6525.)

Gypsum.

- Gypsum** (ground).—Windsor, Hants county, N.S.—Coll., Prof. How, 1871.—Carboniferous, G 1. (778.)
— Beaver Brook, Colchester county, N.S.—Carboniferous, G 1. (947.)
— Antigonish, Antigonish county, N.S.—Carboniferous, G 1. (1205.)
— Petitcodiac, Westmoreland county, N.S.—Carboniferous, G 1. (1219.)
— Oneida, Haldimand county, O.—Silurian, E 5. (657.)
— Mount Healy, Haldimand county, O.—Silurian, E 5. (1203.)
— Paris, Brant county, O.—Silurian, E 5. (1204.)

Specimens of gypsum from the more important localities of its occurrence are shown in upright wing-case 19.

Marls.

- Marl.**—Marl Lake, Island of Anticosti (west end), Q.—Presented by F. W. Stockwell, 1885.—Post-Tertiary, M 3. (5135.)
— Ste. Rose, Laval county, Q. (762.)
— Lots 156 and 157 of St. Armand, Missisquoi county, Q.—Post-Tertiary, M 3. (763.)
Lot 4, range XI. of Stanstead, Stanstead county, Q.—Post-Tertiary, M 3. (771.)
— Thornberry, west side of Mount Royal, Montreal, Hochelaga county, Q.—Post-Tertiary, M 3. (758.)
— River St. Pierre, Hochelaga county, Q.—Post-Tertiary, M 3. (766.)
— Ward No. 5, Hull, Ottawa county, Q.—Presented by J. McArthur, 1885.—Post-Tertiary, M 3. (5117.)
— Lot 17, range VII. of Calumet, Pontiac county, Q.—Presented by E. Marceau, 1891.—Post-Tertiary, M 3. (757.)
— Lot 18, range IV. of West Hawkesbury, Prescott county, O.—Post-Tertiary, M 3. (768.)
— Nepean, Carleton county, O.—Post-Tertiary, M 3. (769.)
— Belleville, Hastings county, O.—Presented by H. Yeomans, 1875.—Post-Tertiary, M 3. (756.)
— Lots 15 and 16, range II. of Sheffield, Addington county, O.—Post-Tertiary, M 3. (764.)
— Storrington, Frontenac county, O.—Post-Tertiary, M 3. (770.)

Marls—*Continued.*

- Marl**—Lot 25, range XV. of Carrick, Bruce county, O.—Post-Tertiary, M 3. (759.)
- Lot 26, range I. of Bentinck, Grey county, O.—Post-Tertiary, M 3. (765.)
- Rockwood, Wellington county, O.—Post-Tertiary, M 3. (605.)
- From thick bed overlying pebble conglomerate, Forks of Farewell Creek and White Mud River, district of Assiniboia, N.W.T.—Coll., R. G. McConnell, 1883.—Tertiary, L 2. (3750.)
- Found underneath the soil on large proportions of the surface of Cypress Hills, district of Assiniboia, N.W.T.—Coll., R. G. McConnell, 1883.—Tertiary, L 2. (3751.)

Upright
wing-case
27.—
Continued.

SPECIMENS ILLUSTRATING THE DISTRIBUTION OF
APATITE.

- Apatite**.—Lot 5, range XV. of Grenville, Argenteuil county, Q.—Coll., C. W. Willimott, 1889.—Laurentian, A. (1785.)
- Lot 28, range VI. of Buckingham, Ottawa county, Q.—Presented by W. H. Dickson, 1889.—Laurentian, A. (1796.)
- Grant mine, lot 18, range XII. of Buckingham, Ottawa county, Q.—Coll., B. J. Harrington, 1878.—Laurentian, A. (1797, 1798, 1799.)
- Lot 17, range XII. of Buckingham, Ottawa county, Q.—Coll., B. J. Harrington, 1878.—Laurentian, A. (1800, 1801, 1802.)
- Lot 26, range XII. of Buckingham, Ottawa county, Q.—Coll., B. J. Harrington, 1878.—Laurentian, A. (1803.)
- Lot 27, range XII. of Buckingham, Ottawa county, Q.—Coll., B. J. Harrington, 1878.—Laurentian, A. (1804.)
- Lochaber, Ottawa county, Q.—Coll., H. G. Vennor, 1878.—Laurentian, A. (1806.)
- Jackson Rae mine, lot 9, range X. of Templeton, Ottawa county, Q.—Coll., C. W. Willimott, 1882.—Laurentian, A. (3752.)
- McLaurin's mine, lot 10, range XI. of Templeton, Ottawa county, Q.—Coll., C. W. Willimott, 1885.—Laurentian, A. (3753.)
- McLaurin's mine, lot 11, range XI. of Templeton, Ottawa county, Q.—Coll., C. W. Willimott, 1882.—Laurentian, A. (3754.)
- Lot 8, range XII. of Templeton, Ottawa county, Q.—Coll., B. J. Harrington, 1878.—Laurentian, A. (3755.)
- Lot 12, range XII. of Templeton, Ottawa county, Q.—Coll., B. J. Harrington, 1878.—Laurentian, A. (1786-1795.)
- Lot 22, range XIII. of Templeton, Ottawa county, Q. (3756.)
- Watt's mine, lot 6, range I. of Portland East, Ottawa county, Q.—Coll., B. J. Harrington, 1878.—Laurentian, A. (1807-1811.)
- Lot 7, range I. of Portland East, Ottawa county, Q.—Coll., B. J. Harrington, 1878.—Laurentian, A. (1812.)
- Lot 7, range VII. of Portland West, Ottawa county, Q.—Coll., B. J. Harrington, 1878.—Laurentian, A. (1813.)
- Lot 1, range VIII. of Portland West, Ottawa county, Q.—Coll., B. J. Harrington, 1878.—Laurentian, A. (1814.)
- Lot 27, range VIII. of Portland East, Ottawa county, Q.—Coll., J. F. Torrance, 1883.—Laurentian, A. (1815.)
- Lot 15, range X. of Hull, Ottawa county, Q.—Coll., C. W. Willimott, 1883.—Laurentian, A. (3702.)

Table-case
34.

SPECIMENS ILLUSTRATING THE DISTRIBUTION OF
APATITE—*Continued.*

Table-case 34.— <i>Continued.</i>	Apatite —Lot 15, range XI. of Hull, Ottawa county, Q.—Coll., C. W. Willimott, 1883.—Laurentian, A. (3703.)
—	Lot 10, range XIV. of Hull, Ottawa county, Q.—Coll., C. W. Willimott, 1882.—Laurentian, A. (3714.)
—	Moore's mine, lot 12, range XVI. of Hull, Ottawa county, Q.—Coll., C. W. Willimott, 1882.—Laurentian, A. (3715.)
—	Barber's mine, lot 17, range XVI. of Hull, Ottawa county, Q.—Coll., C. W. Willimott, 1883.—Laurentian, A. (3716.)
—	Haldane's mine, lot 12, range I. of Wakefield, Ottawa county, Q.—Coll., C. W. Willimott, 1883.—Laurentian, A. (3760.)
—	Wilson's mine, lot 17, range II. of Wakefield, Ottawa county, Q.—Coll., C. W. Willimott, 1883. Laurentian, A. (3707.)
Table-case 35.	Wilson's mine, lot 17, range II. of Wakefield, Ottawa county, Q.—Coll., C. W. Willimott, 1883.—Laurentian, A. (3708.)
—	Moore's mine, lot 18, range II. of Wakefield, Ottawa county, Q.—Coll., C. W. Willimott, 1883.—Laurentian, A. (3758.)
—	South half of lot 24, range IV. of Wakefield, Ottawa county, Q.—Presented by J. A. Gemmill.—Laurentian, A. (1826.)
—	Lot 7, range VII. of Bowman, Ottawa county, Q.—Laurentian, A. (4822.)
—	Youman's mine, Wells, Ottawa county, Q.—Coll., J. F. Torrance, 1883.—Laurentian, A. (4971.)
—	Lot 27, range ?, of Litchfield, Pontiac county, Q.—Laurentian, A. (1576.)
—	Lot 3, range III. of March, Carleton county, O.—Presented by E. Scharf.—Laurentian, A. (4626.)
—	North-west half of lot 20, range II. of Huntley, Carleton county, O.—Coll., C. W. Willimott, 1888.—Laurentian, A. (5662, 5663.)
—	North Elmsley, Lanark county, O.—Coll., H. G. Vennor, 1875.—Laurentian, A. (1816, 1817, 1818.)
—	Lot 8, range IX. of Bathurst, Lanark county, O.—Coll., B. J. Harrington, 1873.—Laurentian, A. (1819.)
—	Foley mine, lot 11, range VIII. of Bathurst, Lanark county, O.—Coll., B. J. Harrington, 1873.—Laurentian, A. (1820.)
—	Lot 3, range XI. of Drummond, Lanark county, O.—Laurentian, A. (1833.)
—	Adams' mine, lot 10, range VI. of North Burgess, Lanark county, O.—Coll., C. W. Willimott, 1879.—Laurentian, A. (1822, 1823.)
—	Cowan's mine, lots 11 and 12, range VII. of North Burgess, Lanark county, O.—Presented by A. Cowan, 1875.—Laurentian, A. (1824, 1825.)
—	Lot 31, range X. of Sebastopol, Renfrew county, O.—Coll., C. W. Willimott, 1884.—Laurentian, A. (4846.)
—	Lot 21, range XV. of Storrington, Frontenac county, O.—Coll., H. G. Vennor, 1875.—Laurentian, A. (1827.)
—	Lot 14, range VI. of Storrington, Frontenac county, O.—Presented by W. J. Morris, 1877.—Laurentian, A. (1828.)
—	Lot 10, range X. of Loughborough, Frontenac county, O.—Presented by W. J. Morris, 1875.—Laurentian, A. (1829.)
—	McFarlane's mine, lot 23, range XII. of Loughborough, Frontenac county, O.—Presented by W. J. Morris, 1883.—Laurentian, A. (1830.)

SPECIMENS ILLUSTRATING THE DISTRIBUTION OF
APATITE—*Continued.*

- Apatite**—Lot 1, range XVII. of Bedford, Frontenac county, O.—Coll., H. G. Vennor, 1871.—Laurentian, A. (1832.)
- Lot 13, range XI. of Monmouth, Peterborough county, O.—Presented by W. H. Lockhart Gordon, 1890.—Laurentian, A. (5966.)
- Lot 14, range XI. of Monmouth, Peterborough county, O.—Presented by W. H. Lockhart Gordon, 1890.—Laurentian, A. (5967.)
- Lot 15, range XI. of Monmouth, Peterborough county, O.—Presented by W. H. Lockhart Gordon, 1890.—Laurentian, A. (5968.)
- Lot 17, range XI. of Monmouth, Peterborough county, O.—Presented by W. H. Lockhart Gordon, 1890.—Laurentian, A. (5969.)
- Lot 4, range III. of Dudley, Peterborough county, O.—Presented by W. H. Lockhart Gordon, 1890.—Laurentian, A. (5970.)
- Lot 11, range V. of Dysart, Peterborough county, O.—Presented by W. H. Lockhart Gordon, 1890.—Laurentian, A. (5971.)
- Lot 21, range XI. of Harcourt, Peterborough county, O.—Presented by W. H. Lockhart Gordon, 1890.—Laurentian, A. (5972.)
- Lot 4, range VI. of Ferris, district of Nipissing, O.—Presented by J. McCord, 1887.—Laurentian, A. (5452.)
- North side of Eabamet Lake, Albany River, Severn district.—Coll., R. Bell, 1886. (5358.)

Table-case
35.—
Continued.

Specimens of apatite from some of the more important deposits are shown in upright wing-case 27.

MINERAL ASSOCIATIONS OF APATITE.

- Apatite** with fluorite, felspar and calcite.—Augmentation of Grenville, Argenteuil county, Q.—Laurentian, A. (1900.)
- Scapolite**.—Lot 3, range III. of the Augmentation of Grenville, Argenteuil county, Q.—Coll., C. W. Willimott, 1882.—Laurentian, A. (1842.)
- Apatite** and pyroxene.—Lot 18, range XII. of Buckingham, Ottawa county, Q.—Coll., B. J. Harrington, 1878.—Laurentian, A. (1838.)
- calcite and smoky quartz.—Lot 18, range XII. of Buckingham, Ottawa county, Q.—Coll., B. J. Harrington, 1878.—Laurentian, A. (1862.)
- Calcite**.—Lot 18, range XII. of Buckingham, Ottawa county, Q.—Coll., B. J. Harrington, 1878.—Laurentian, A. (1863.)
- Apatite**, graphite and calcite.—Lot 21, range VII. of Buckingham, Ottawa county, Q.—Coll., B. J. Harrington, 1878.—Laurentian, A. (1864.)
- and pyrite.—Lot 18, range XII. of Buckingham, Ottawa county, Q.—Coll., B. J. Harrington, 1878.—Laurentian, A. (1872.)
- Pyroxene**, calcite and apatite.—Lot 18, range XII. of Buckingham, Ottawa county, Q.—Coll., B. J. Harrington, 1878. (1873.)
- Sphalerite**, calcite and apatite.—Emerald mine, lot 19, range XII. of Buckingham, Ottawa county, Q.—Coll., J. F. Torrance, 1883.—Laurentian, A. (3700.)
- Calcite** with chalcopryrite.—Lot 17, range VI. of Templeton, Ottawa county, Q.—Coll., B. J. Harrington, 1878.—Laurentian, A. (1866.)
- Apatite** and calcite.—Lot 7, range VII. of Templeton, Ottawa county, Q.—Coll., C. W. Willimott, 1882.—Laurentian, A. (1897.)
- and scapolite.—Lot 7, range VII. of Templeton, Ottawa county, Q.—Coll., C. W. Willimott, 1882.—Laurentian, A. (3762.)

Table-case
36.

MINERAL ASSOCIATIONS OF APATITE—*Continued.*

- Table-case 36.—*Continued.*
- Pyroxene.**—Lot 15, range VIII. of Templeton, Ottawa county, Q.—Coll., B. J. Harrington, 1878.—Laurentian, A. (1834.)
- Apatite** and mica.—Lot 15, range VIII. of Templeton, Ottawa county, Q.—Coll., B. J. Harrington, 1878.—Laurentian, A. (1835.)
- calcite and mica.—Lot 15, range VIII. of Templeton, Ottawa county, Q.—Coll., B. J. Harrington, 1878.—Laurentian, A. (1839.)
- Pyroxene.**—Lot 15, range VIII. of Templeton, Ottawa county, Q.—Coll., B. J. Harrington, 1878.—Laurentian, A. (1841.)
- Mica** in calcite.—Lot 15, range VIII. of Templeton, Ottawa county, Q.—Coll., B. J. Harrington, 1878.—Laurentian, A. (1856.)
- Calcite** with mica.—Lot 8, range IX. of Templeton, Ottawa county, Q.—Coll., B. J. Harrington, 1878.—Laurentian, A. (1861.)
- Quartz**, calcite and apatite.—Lot 17, range IX. of Templeton, Ottawa county, Q.—Coll., B. J. Harrington, 1878.—Laurentian, A. (1840.)
- calcite, apatite and chalcopryrite.—Lot 17, range IX. of Templeton, Ottawa county, Q.—Coll., B. J. Harrington, 1878.—Laurentian, A. (1867.)
- Hornblende**, scapolite, pyrite, calcite and tourmaline.—Jackson Rae mine, lot 9, range X. of Templeton, Ottawa county, Q.—Coll., C. W. Willimott, 1882.—Laurentian, A. (3763.)
- Pyrite**, apatite and calcite.—Jackson Rae mine, lot 9, range X. of Templeton, Ottawa county, Q.—Coll., C. W. Willimott, 1882.—Laurentian, A. (3764.)
- Pyroxene**, scapolite, apatite and pyrite.—Lot 9, range X. of Templeton, Ottawa county, Q.—Coll., C. W. Willimott, 1882.—Laurentian, A. (3767.)
- Apatite** and mica.—McLaurin's mine, lot 11, range IX. of Templeton, Ottawa county, Q.—Coll., A. R. C. Selwyn, 1882.—Laurentian, A. (1848.)
- Pyroxene**, apatite and mica.—McLaurin's mine, lot 11, range XI. of Templeton, Ottawa county, Q.—Coll., A. R. C. Selwyn, 1882.—Laurentian, A. (3768.)
- Apatite** and mica.—Lot 12, range XI. of Templeton, Ottawa county, Q.—Coll., B. J. Harrington, 1878.—Laurentian, A. (1831.)
- Orthoclase**, with tourmaline and actinolite.—Lot 15, range XI. of Templeton, Ottawa county, Q.—Coll., C. W. Willimott, 1882.—Laurentian, A. (3765.)
- Lot 12, range XII. of Templeton, Ottawa county, Q.—Coll., B. J. Harrington, 1878.—Laurentian, A. (1850.)
- Apatite** and calcite.—Lot 12, range XII. of Templeton, Ottawa county, Q.—Coll., B. J. Harrington, 1878.—Laurentian, A. (1860.)
- Scapolite** and pyroxene.—Lot 14, range XII. of Templeton, Ottawa county, Q.—Coll., B. J. Harrington, 1878.—Laurentian, A. (1836.)
- Pyroxene.**—Lot 16, range XII. of Templeton, Ottawa county, Q.—Coll., B. J. Harrington, 1878.—Laurentian, A. (1858.)
- Wilsonite.**—Lot 23, range XII. of Templeton, Ottawa county, Q.—Coll., B. J. Harrington, 1878.—Laurentian, A. (1849.)
- Orthoclase**, pyroxene, quartz and apatite.—Lot 11, range XIII. of Templeton, Ottawa county, Q.—Coll., B. J. Harrington, 1878.—Laurentian, A. (1844.)
- Titanite** and pyroxene.—Lot 23, range XIII. of Templeton, Ottawa county, Q.—Coll., B. J. Harrington, 1878.—Laurentian, A. (1851.)
- Pyroxene**, prehnite and apatite.—Lot 23, range XIII. of Templeton, Ottawa county, Q.—Presented by J. G. Miller, 1878.—Laurentian, A. (3766.)
- Apatite**, titanite and pyroxene.—Templeton, Ottawa county, Q.—Coll., B. J. Harrington, 1878.—Laurentian, A. (1843.)

MINERAL ASSOCIATIONS OF APATITE—*Continued.*

- Mica** (phlogopite).—Templeton, Ottawa county, Q.—Coll., B. J. Harrington, 1878.—Laurentian. (1845.)
- Pyroxene** with chabazite.—Templeton, Ottawa county, Q.—Coll., B. J. Harrington, 1878.—Laurentian, A. (1847.)
- Hornblende**, apatite and mica.—Templeton, Ottawa county, Q.—Coll., B. J. Harrington, 1878.—Laurentian, A. (1854.)
- Wilsonite**, pyroxene and apatite.—Templeton, Ottawa county, Q.—Coll., B. J. Harrington, 1878.—Laurentian, A. (1859.)
- Mica** (phlogopite).—Templeton, Ottawa county, Q.—Coll., B. J. Harrington, 1878.—Laurentian, A. (1868.)
- Hornblende**.—Templeton, Ottawa county, Q.—Coll., B. J. Harrington, 1878.—Laurentian, A. (1870.)
- Calcite** and pyroxene.—Little Rapids, Portland East, Ottawa county, Q.—Coll., B. J. Harrington, 1878.—Laurentian, A. (1874.)
- with apatite.—Little Rapids, Portland East, Ottawa county, Q.—Coll., B. J. Harrington, 1878.—Laurentian, A. (1879.)
- Orthoclase** with pyroxene and apatite.—Little Rapids, Portland East, Ottawa county, Q.—Coll., B. J. Harrington, 1878.—Laurentian, A. (1880.)
- Pyroxene** with apatite and calcite.—Little Rapids, Portland East, Ottawa county, Q.—Coll., B. J. Harrington, 1878.—Laurentian, A. (1886.)
- Little Rapids, Portland East, Ottawa county, Q.—Coll., B. J. Harrington, 1878.—Laurentian, A. (1887.)
- Orthoclase** with titanite and pyroxene.—Watt's mine, lot 6, range I. of Portland East, Ottawa county, Q.—Coll., B. J. Harrington, 1878.—Laurentian, A. (1857.)
- Pyroxene** with apatite.—Watt's mine, lot 6, range I. of Portland East, Ottawa county, Q.—Coll., B. J. Harrington, 1878.—Laurentian, A. (1878.)
- Apatite** and mica.—Watt's mine, lot 6, range I. of Portland East, Ottawa county, Q.—Coll., B. J. Harrington, 1878.—Laurentian, A. (1881.)
- with calcite.—Watt's mine, lot 6, range I. of Portland East, Ottawa county, Q.—Coll., B. J. Harrington, 1878.—Laurentian, A. (1883.)
- and pyroxene.—Watt's mine, lot 6, range I. of Portland East, Ottawa county, Q.—Coll., B. J. Harrington, 1878.—Laurentian, A. (1884.)
- Pyroxene** and calcite.—Lot 8, range I. of Portland East, Ottawa county, Q.—Coll., B. J. Harrington, 1878.—Laurentian, A. (1882.)
- Apatite**, pyroxene, chabazite, stilbite and mica.—Lot 17, range VII. of Portland East, Ottawa county, Q.—Coll., J. F. Torrance, 1883.—Laurentian, A. (3724.)
- Tourmaline**, pyroxene and calcite.—Lot 17, range VII. of Portland East, Ottawa county, Q.—Coll., J. F. Torrance, 1883.—Laurentian, A. (3727.)
- Calcite** with mica.—Lot 26, range VIII. of Portland East, Ottawa county, Q.—Coll., J. F. Torrance, 1883.—Laurentian, A. (3728.)
- Scapolite**, pyroxene, apatite and stilbite.—Lot 27, range VIII. of Portland East, Ottawa county, Q.—Coll., J. F. Torrance, 1883.—Laurentian, A. (3722.)
- Pyroxene**, with stilbite, apatite and mica.—Lot 27, range VIII. of Portland East, Ottawa county, Q.—Coll., J. F. Torrance, 1883.—Laurentian, A. (3723.)

Table-case
36.—
Continued.

Upright
table-case
27.

MINERAL ASSOCIATIONS OF APATITE—*Continued.*

- Upright table-case 27.—
Continued.
- Calcite** with apatite and chabazite.—Crown Hill, lot 27, range IX. of Portland East, Ottawa county, Q.—Coll., J. F. Torrance, 1883.—Laurentian, A. (3701.)
- Chabazite**, pyroxene and apatite.—Crown Hill, lot 27, range IX. of Portland East, Ottawa county, Q.—Coll., J. F. Torrance, 1883.—Laurentian, A. (3721.)
- Apatite**, pyroxene and mica.—Lot 17, range I. of Portland West, Ottawa county, Q.—Coll., H. G. Vennor, 1873.—Laurentian, A. (1876.)
- with mica.—Lot 17, range I. of Portland West, Ottawa county, Q.—Coll., H. G. Vennor, 1873.—Laurentian, A. (1877.)
- Pyroxene** with chabazite.—Lot 19, range IV. of Portland West, Ottawa county, Q.—Presented by J. G. Miller, 1878.—Laurentian, A. (3699.)
- Apatite**, fluorite and pyrite.—Preston mine, Portland West, Ottawa county, Q.—Presented by J. G. Miller, 1878.—Laurentian, A. (3772.)
- Pyroxene**, apatite and zircon.—High Rock mine, lot 6, range VII. of Portland West, Ottawa county, Q.—Coll., C. W. Willimott, 1889.—Laurentian, A. (1889.)
- Titanite** and pyroxene.—Lyon's mine, Hull, Ottawa county, Q.—Coll., C. W. Willimott, 1882.—Laurentian, A. (3782.)
- Tourmaline**, with hornblende and apatite.—Lot 10, range XIV. of Hull, Ottawa county, Q.—Coll., C. W. Willimott, 1882.—Laurentian, A. (1865.)
- Pyroxene**.—Moore's mine, lot 12, range XVI. of Hull, Ottawa county, Q.—Coll., C. W. Willimott, 1882.—Laurentian, A. (3769.)
- Titanite**, pyroxene and orthoclase.—Moore's mine, lot 12, range XVI. of Hull, Ottawa county, Q.—Coll., C. W. Willimott, 1882.—Laurentian, A. (3781.)
- Pyrite**, scapolite and apatite.—Haldane's mine, lot 12, range I. of Wakefield, Ottawa county, Q.—Coll., C. W. Willimott, 1882.—Laurentian, A. (3691.)
- Epidote**, hornblende, pyrite and apatite.—Haldane's mine, lot 12, range I. of Wakefield, Ottawa county, Q.—Coll., C. W. Willimott, 1882.—Laurentian, A. (3692.)
- Apatite** and pyrite.—Haldane's mine, lot 12, range I. of Wakefield, Ottawa county, Q.—Coll., C. W. Willimott, 1882.—Laurentian, A. (3770.)
- Scapolite** and pyrite.—Haldane's mine, lot 12, range I. of Wakefield, Ottawa county, Q.—Coll., C. W. Willimott, 1883.—Laurentian, A. (3704.)
- Garnet** with calcite and idocrase.—Lot 14, range I. of Wakefield, Ottawa county, Q.—Coll., C. W. Willimott, 1883.—Laurentian, A. (3698.)
- Calcite** with idocrase and apatite.—Lot 14, range I. of Wakefield, Ottawa county, Q.—Coll., C. W. Willimott, 1883.—Laurentian, A. (4842.)
- Apatite** with tourmaline and pyroxene.—Lot 14, range I. of Wakefield, Ottawa county, Q.—Coll., C. W. Willimott, 1882.—Laurentian, A. (3773.)
- Pyroxene** and apatite.—Wilson's mine, lot 17, range II. of Wakefield, Ottawa county, Q.—Coll., C. W. Willimott, 1882.—Laurentian, A. (3776.)
- Calcite** with apatite.—Moore's mine, lot 18, range II. of Wakefield, Ottawa county, Q.—Coll., C. W. Willimott, 1882.—Laurentian, A. (1875.)

MINERAL ASSOCIATIONS OF APATITE—*Continued.*

- Garnet**, epidote and pyroxene.—Moore's mine, lot 18, range II. of Wakefield, Ottawa county, Q.—Coll., C. W. Willimott, 1882.—Laurentian, A. (3726.)
- Apatite** and pyroxene.—Moore's mine, lot 18, range II. of Wakefield, Ottawa county, Q.—Coll., C. W. Willimott, 1882.—Laurentian, A. (3759.)
- Scapolite** and pyroxene.—Moore's mine, lot 18, range II. of Wakefield, Ottawa county, Q.—Coll., C. W. Willimott, 1882.—Laurentian, A. (3774.)
- Apatite**, mica and calcite.—Moore's mine, lot 18, range II. of Wakefield, Ottawa county, Q.—Coll., C. W. Willimott, 1882.—Laurentian, A. (3775.)
- Pyroxene** and calcite.—Moore's mine, lot 18, range II. of Wakefield, Ottawa county, Q.—Coll., C. W. Willimott, 1882.—Laurentian, A. (3778.)
- calcite, apatite and mica.—Moore's mine, lot 18, range II. of Wakefield, Ottawa county, Q.—Coll., C. W. Willimott, 1882.—Laurentian, A. (3779.)
- Apatite** in quartz.—Moore's mine, lot 18, range II. of Wakefield, Ottawa county, Q.—Coll., C. W. Willimott, 1882.—Laurentian, A. (3780.)
- with calcite.—Moore's mine, lot 18, range II. of Wakefield, Ottawa county, Q.—Coll., C. W. Willimott, 1882.—Laurentian, A. (4824.)
- mica and calcite.—Moore's mine, lot 18, range II. of Wakefield, Ottawa county, Q.—Coll., C. W. Willimott, 1882.—Laurentian, A. (4844.)
- and pyroxene.—Lot 24, range IV. of Wakefield, Ottawa county, Q.—Coll., C. W. Willimott, 1883.—Laurentian, A. (3697.)
- hornblende and mica.—Lot 24, range IV. of Wakefield, Ottawa county, Q.—Coll., C. W. Willimott, 1883.—Laurentian, A. (3706.)
- with pyroxene.—Lot 24, range IV. of Wakefield, Ottawa county, Q.—Coll., C. W. Willimott, 1883.—Laurentian, A. (3718.)
- Gneiss** with apatite.—Lot 22, range V. of Wakefield, Ottawa county, Q.—Coll., C. W. Willimott, 1883.—Laurentian, A. (3696.)
- Pyroxene**, scapolite and apatite.—McFarlane's mine, lot?, range VII. of Wakefield, Ottawa county, Q.—Coll., C. W. Willimott, 1882.—Laurentian, A. (3777.)
- Magnetite**, apatite and orthoclase.—North-west half of lot 20, range II. of Huntley, Carleton county, O.—Coll., C. W. Willimott, 1888.—Laurentian, A. (5664.)
- Apatite** in calcite.—North-west half of lot 20, range II. of Huntley, Carleton county, O.—Coll., C. W. Willimott, 1888.—Laurentian, A. (5665.)
- Calcite**, with apatite and chalcopyrite.—Lot 4, range I. of North Burgess, Lanark county, O.—Coll., H. G. Vennor, 1871.—Laurentian, A. (1893.)
- Apatite** with mica.—North Burgess, Lanark county, O.—Coll., H. G. Vennor, 1871.—Laurentian, A. (1894.)
- Mica** with apatite.—Adams' mine, lot 6, range VIII. of North Burgess, Lanark county, O.—Coll., C. W. Willimott, 1879.—Laurentian, A. (1871.)
- Calcite** and apatite.—Adams' mine, lot 6, range VIII. of North Burgess, Lanark county, O.—Coll., C. W. Willimott, 1879.—Laurentian, A. (1888.)

Upright
table-case
27.—
Continued.

Upright
table-case
28.

MINERAL ASSOCIATIONS OF APATITE—*Continued.*

- Upright
table-case
28.—
Continued.
- Quartz**, calcite and apatite.—Adams' mine, lot 6, range VIII. of North Burgess, Lanark county, O.—Coll., C. W. Willimott, 1879.—Laurentian, A. (1892.)
- Hematite** with apatite and mica.—Lot 12, range VII. of North Burgess, Lanark county, O.—Coll., H. G. Vennor, 1872.—Laurentian, A. (1895.)
- Calcite**, apatite, mica and chalcopryrite.—Lot 26, range VIII. of North Elmsley, Lanark county, O.—Coll., H. G. Vennor, 1875.—Laurentian, A. (1896.)
- Apatite** and calcite.—Near the Foley mine, lot 11, range VIII. of Bathurst, Lanark county, O.—Coll., B. J. Harrington, 1878.—Laurentian, A. (1898.)
- Calcite** with apatite and fluorite.—Lot 1, range VII. of Ross, Renfrew county, O.—Laurentian, A. (1899.)
- Scapolite**, pyroxene and fluorite.—Lot 13, range VI. of Ross, Renfrew county, O.—Laurentian, A. (3725.)
- Hornblende**, with zircon, apatite and calcite.—Lot 31, range X. of Sebastopol, Renfrew county, O.—Coll., C. W. Willimott, 1883.—Laurentian, A. (1415.)
- Apatite**, calcite and hornblende.—Lot 31, range XI. of Sebastopol, Renfrew county, O.—Coll., C. W. Willimott, 1883.—Laurentian, A. (3693.)
- Scapolite**, with apatite, titanite and pyroxene.—Turner's Island, Lake Clear, Sebastopol, Renfrew county, O.—Coll., C. W. Willimott, 1883.—Laurentian, A. (3694.)
- Mica** and pyroxene.—Lot 32, range XII. of Sebastopol, Renfrew county, O.—Coll., C. W. Willimott, 1883.—Laurentian, A. (3709.)
- Apatite** in calcite.—Turner's Island, Lake Clear, Sebastopol, Renfrew county, O.—Coll., C. W. Willimott, 1883.—Laurentian, A. (3717.)
- with pyroxene.—Lot 31, range XI. of Sebastopol, Renfrew county, O.—Coll., C. W. Willimott, 1883.—Laurentian, A. (3719.)
- Titanite**.—Turner's Island, Lake Clear, Sebastopol, Renfrew county, O.—Coll., C. W. Willimott, 1883.—Laurentian, A. (3720.)
- Scapolite**, titanite, pyroxene and calcite.—Turner's Island, Lake Clear, Sebastopol, Renfrew county, O.—Presented by J. G. Miller, 1881.—Laurentian, A. (3783.)
- Quartz**, mica and apatite.—Lot 4, range XI. of Miller, Frontenac county, O.—Presented by E. G. Powell, 1886.—Laurentian, A. (5412.)

X.—MINERALS EMPLOYED FOR GRINDING AND POLISHING,

Sandstones and mica slates and articles manufactured therefrom.

- Upright
wing-case
28.
- Grindstone**.—Manufactured from a sandstone found at Clifton, parish of New Bandon, Gloucester county, N. B.—Coll., L. W. Bailey, 1875.—Carboniferous, G. (1227.)
- manufactured from the sandstone of the Clifton Quarries, parish of New Bandon, Gloucester county, N. B.—Presented by Joseph Read & Co., 1880.—Carboniferous, G. (2579.)
- manufactured from a sandstone found at the Bay of Chaleurs, Bonaventure county, Q.—Presented by W. L. McArthur & Co.—Carboniferous, G. (3499.)
- manufactured from a sandstone found in the vicinity of the Allumette Rapids, Pembroke, Renfrew county, O.—Coll., W. E. Logan, 1845.—Cambro-Silurian, D 1. (691.)

Sandstones and mica slates, etc.—Continued.

Grindstone—manufactured from a sandstone found at Pembroke, Renfrew county, O.—Coll., T. C. Weston, 1875.—Cambro-Silurian, D 1. (692.)

— manufactured from a sandstone found at Nanaimo, Vancouver Island, B.C.—Coll., J. Richardson, 1871.—Cretaceous, K. (690.)

Upright
wing-case
28. —

Continued.

Rock, suitable for mill-stones.—Lot 3, range V. of Grenville, Argenteuil county, Q.—Laurentian, A. (688.)

— suitable for mill-stones.—L'Anse à la Vieille, Port Daniel, Bonaventure county, Q.—Coll., R. Bell, 1862. (689.)

Mica slate, suitable for whetstones.—Lot 14, range II. of Shipton, Richmond county, Q.—Pre-Cambrian, B? (661.)

— suitable for whetstones.—Lot 2, range XI. of Potton, Brome county, Q. (685.)

Sandstone, suitable for whetstones.—From quarry above the Monastery Brook saw-mill, Antigonish, Antigonish county, N.S.—Coll., T. C. Weston, 1886.—Carboniferous, G-M. (5416.)

— suitable for polishing.—Dorchester, Westmoreland county, N.B.—Presented by Read, Stevenson & Co., 1875.—Carboniferous, G. (1225.)

Whetstones.—Manufactured from a mica slate found at Massawippi Lake, lot 5, range IX. of Hatley, Stanstead county, Q.—Cambrian, C 1. (680.)

— manufactured from a mica slate found on lot 28, range VII. of Stanstead, Stanstead county, Q.—Cambrian, C 1. (682.)

— manufactured from a mica schist found on lot 15, range I. of Stanstead, Stanstead county, Q. (683.)

— manufactured from a mica slate found on lot 23, range VI. of Bolton, Brome county, Q.—Cambrian, C 1. (684.)

— manufactured from a mica slate found on lot 7, range II. of Kingsey, Drummond county, Q. (687.)

— manufactured from a mica slate found in the township of Ham, Wolfe county, Q.—Presented by E. Richard, Arthabaska-ville, Q., 1875.—Cambrian, C 1. (1226.)

— manufactured from a mica slate found on lot 4, range V. of Madoc, Hastings county, O.—Archean, A. B. (681.)

— manufactured from a sandstone found at Arnprior, McNab, Renfrew county, O.—Presented by J. Bell, 1875.—Cambrian, C 2. (1224.)

— manufactured from a sandstone found on lot 24, range XI. of Nottawasaga, Simcoe county, O.—Silurian, E 1. (679.)

Infusorial earth, silicious sands, arenaceous marl and silts.

Infusorial earth (tripolite).—Fountain Lake, Amherst, Cumberland county, N.S.—Presented by A. Mackenzie, 1885. (5136.)

— Merigonish, Pictou county, N.S.—Presented by A. Mackenzie, 1885. (5137.)

— Folly Lake, Colchester county, N.S.—Presented by J. F. Torrance, 1886. (5230.)

— Pollet River Lake, Mechanic settlement, King's county, N.B.—Coll., R. W. Eells, 1877. (1174.)

— Almonte, Ramsay, Lanark county, O. (673.)

— Valley of the Petewahwa River, about thirty-five miles from its entry into the Ottawa River, district of Nipissing, O. (676.)

— Vicinity of Burrard Inlet, B.C.—Coll., G. M. Dawson, 1875. (3457.)

Infusorial earth, silicious sands, etc.—Continued.

- Upright
wing-case
28.—
Continued.
- Silicious sand** used in the slate factory at Danville for sharpening knives.—Lot 7, range XIV. of Shipton, Richmond county, Q. (1208.)
- suitable for polishing.—Upper layer.—Sturgeon Cove, Pennfield, Charlotte county, N.B.—Presented by C. E. Boardman, 1885. (4900.)
- suitable for polishing.—Lower layer.—Sturgeon Cove, Pennfield, Charlotte county, N.B.—Presented by C. E. Boardman, 1885. (4901.)
- suitable for polishing.—Amherst Island, Magdalen Islands, Q.—Coll., J. Richardson, 1880. (2567.)
- suitable for polishing.—Laval—on the right bank of the Bras, at its junction with the Montmorency River, Montmorency county, Q. (678.)
- suitable for polishing.—Mount Hope, Glanford, Wentworth county, O. (672.)
- Arenaceous marl** used for the manufacture of Bath-brick, Kincardine, Bruce county, O.—Presented by Geo. Riggins, 1875. (1133.)
- Silt.**—White Mud River, Cypress Hills, district of Assiniboia, N.W.T.—Coll., R. G. McConnell, 1883.—Tertiary, L. (3611.)
- From below the boulder clay and above the gravel.—Eight miles above the Forks of the Red Deer River, N.W.T.—Coll., R. G. McConnell, 1883.—Tertiary, L. (4665.)
- Overlying boulder clay.—Crooked Creek, near Waterton Lake, district of Alberta, N.W.T.—Coll., T. C. Weston, 1883. (3532.)
- Columbia River (below the second lake), B.C.—Coll., G. M. Dawson, 1883.—Post-Glacial. (5118.)

XI.—MINERALS OF MISCELLANEOUS APPLICATION.

- Sandstone**, suitable for glass-making.—Lot 80, range II. of Hemmingford, Huntingdon county, Q.—Cambrian, C 1. (754.)
- suitable for glass-making.—Lot 151, range II. of Williamstown, Chateauguay county, Q.—Cambrian, C 1. (755.)
- suitable for glass-making.—Bishop's quarry, lot 6, range II. of Nepean, Carleton county, O.—Coll., T. C. Weston, 1875.—Cambrian, C 2. (667.)
- suitable for glass-making.—De Cew's quarry, lot 48, range I. of Oneida, Haldimand county, O.—Coll., T. C. Weston, 1875.—Devonian, F 1. (638.)
- Sand**, suitable for glass-making.—St. Joseph Island, north shore of Lake Huron, district of Algoma, O. (753.)
- Quartz**, suitable for glass-making.—Villeneuve mica mine, lot 31, range I. of Villeneuve, Ottawa county, Q.—Presented by L. H. Shirley, 1886. (5275.)
- Moulding sand.**—Vicinity of Radnor Forges, Batiscan, Champlain county, Q. (107.)
- Ste. Marguerite, Cap de la Magdeleine, Champlain county, Q. (108.)
- Lot 3, range V. of North Sherbrooke, Lanark county, O.—Coll., J. White, 1891. (945.)
- Owen Sound, Grey county, O. (1196.)
- Dundas, Wentworth county, O. (1197.)
- Soap clay.**—Fort Edmonton, district of Alberta, N.W.T.—Coll., A. R. C. Selwyn, 1873. (1206.)

**POLISHED COLUMNS AND PEDESTALS OF LIMESTONE
AND SERPENTINE MARBLES AND OF OTHER
ORNAMENTAL STONES.**

These occupy a position immediately in the front of some of the windows, also at either end of the central series of table-cases, and occasionally against the wall.

Column and pedestal of limestone (polished) supporting a mass (5042a) of **meteoric iron**. The limestone—whitish, and light bluish-grey, with light to dark greyish-black wavy markings—from the "Ottawa Valley" marble quarry, lot 15, range II. of McNab, Renfrew county, O.—Presented by R. McDonald & Son, Arnprior, 1886.—Laurentian, A., and the meteoric iron, weighing 370 lbs., was found, in 1854, on the surface of the ground in the township of Madoc, Hastings county, O. (5042.)

Block of purple copper ore (bornite).—Acton mine, lot 32, range III. of Acton, Bagot county, Q.—Cambrian, C 1. (5049.)

Column and pedestal of serpentine. Polished. Column—light and dark green, with light greenish-grey spots, and veinings of white calcite. Pedestal—light and dark green, flecked and spotted.—Melbourne, Richmond county, Q.—Cambrian, C 1. (5059.)

— **of limestone**—coralline. Polished. Light to dark bluish-grey, with white, ash-grey, and brownish-yellow markings, and brownish-yellow veinings.—Dudswell, Wolfe county, Q.—Presented by the Dudswell Marble and Lime Company, 1886.—Silurian, E 3. (5143.)

— **of jasper conglomerate** on pedestal (5147a) of **granitoid gneiss**. Polished. The jasper conglomerate from Bruce Mines, Lake Huron, O.—Huronian, B., and the granitoid gneiss from the east side of Kingston Harbour, Frontenac county, O.—Laurentian, A. (5147.)

— **and pedestal of limestone** resting on a base (5149a) of **syenite**. Polished. The limestone—light to dark reddish-brown with white, and white, with dark grey, veinings.—From St. Joseph, Beauce county, Q.—Cambrian, C 1., and the syenite from Forsyth's or Barrow Island, River St. Lawrence, opposite Gananoque, Leeds county, O.—Laurentian, A. (5149.)

— **and vase of red granite**. Polished.—St. George, Charlotte county, N.B.—Presented by the Bay of Fundy Red Granite Company, 1875.—Devonian, F. (5151.)

— **and pedestal of limestone** resting on a base (5153a) of **serpentine**. Polished. The limestone—white, penetrated by crystals of greenish-grey tremolite—from Barrie, Frontenac county, O.—Laurentian, A., and the serpentine—yellowish-green, light green, and greenish-grey—from Melbourne, Richmond county, Q.—Cambrian, C 1. (5153.)

— **and pedestal of serpentine**. Polished. Light and dark green, with veinings of white calcite, brecciated.—Orford, Sherbrooke county, Q.—Cambrian, C 1. (5157.)

Crystal of apatite.—Emerald mine, lot 18, range XII. of Buckingham, Ottawa county, Q.—Presented by W. A. Allan, 1886.—Laurentian, A. (5155.)

LARGE FRAGMENTS, ETC., OF MISCELLANEOUS MINERALS AND ROCKS.

These rest on brackets attached to the ends of the several upright wing-cases.

- Block of magnetic iron ore** (magnetite).—Grandison, Argenteuil county, Q.—Laurentian, A. (5159.)
- Neilson mine, west half of lot 19, range II. of Madoc, Hastings county, O.—Laurentian, A. (5161.)
- **of copper pyrites** (chalcopyrite).—Huntingdon mine, lot 8, range VIII. of Bolton, Brome county, Q.—Cambrian, C 1. (5163.)
- Dressed block of bituminous shale.**—Albert Mines, Albert county, N. B.—Carboniferous, G 1. (5165.)
- Block of chromic iron ore** (chromite).—Lot 40, range II. of South Ham, Wolfe county, Q.—Cambrian, C 1. (5167.)
- Group of amethyst-crystals.**—Amethyst Harbour, Thunder Bay, Lake Superior, O.—Cambrian, C 1. (5169.)
- Crystal of scapolite.**—Island D., Lake Clear, Sebastopol, Renfrew county, O.—Laurentian, A. (5171.)
- Blocks of columnar basalt.**—Lake Superior, O. (5174.)
- Block of gypsum.**—Grand River, below Cayuga, Haldimand county, O.—Presented by W. Hamilton Merritt.—Silurian, E 5. (5176.)
- Crystal of apatite.**—Lot 1, range XII. of Hull, Ottawa county, Q.—Presented by W. A. Allan.—Laurentian, A. (5178.)
- Porphyritic boulder.**—Lake Superior, O. (5180.)
- Block of jasper conglomerate.**—Goulais Bay, Lake Superior, O.—Coll., R. Bell, 1876.—Huronian, B. (5189.)
- Concretionary nodule.**—Kaministiquia River, district of Thunder Bay, O.—Cambrian, C 1. (5190.)

MISCELLANEOUS MINERALS AND ROCKS.

Upright
wing-case
29.

- Hypersthene.**—From near Hebertville, township of Labarre, Chicoutimi county, Q.—Coll., F. D. Adams, 1883.—Laurentian, A. (835.)
- Serpentine** (massive and fibrous).—Fenwick and Sclater's asbestos mine, one mile and a half north-west of Coleraine station, Megantic county, Q.—Coll., R. W. Ells, 1889.—Cambrian, C. (3511.)
- Quartz with albite, muscovite and spessartite.**—Villeneuve mica mine, lot 31, range I. of Villeneuve, Ottawa county, Q.—Presented by L. H. Shirley, 1886.—Laurentian, A. (5280.)
- Garnetiferous granite.**—From a boring on lot 11, range V. of Templeton, Ottawa county, Q.—Presented by Hector McRae, 1891.—Laurentian, A. (340.)
- Andesite.**—Château Richer, Montmorency county, Q.—Coll., J. Richardson.—Laurentian, A. (2519.)
- Orthoclase with quartz.**—Quetachoo, Manicouagan Bay, Saguenay county, Q.—Laurentian, A. (2524.)
- Apatite, (vein, with phlogopite).**—Lot 12, range XI. of Templeton, Ottawa county, Q.—Laurentian, A. (2547.)
- showing rounded crystals, in calcite.—Emerald mine, lot 19, range XII. of Buckingham, Ottawa county, Q.—Coll., J. F. Torrance, 1883.—Laurentian, A. (4662.)

MISCELLANEOUS MINERALS AND ROCKS—*Continued.*

- Apatite** in pyrite, with pyroxene.—Lot 11, range V. of Templeton, Ottawa county, Q.—Presented by Hector McRae, 1891.—Laurentian, A. (2523.) Upright wing-case 29.—
Continued.
- with pyroxene.—High Rock mine, lot 5, range VII. of Portland West, Ottawa county, Q.—Coll., C. W. Willimott, 1889.—Laurentian, A. (4915.)
- with pyroxene and phlogopite.—Moore's mine, lot 18, range II. of Wakefield, Ottawa county, Q.—Coll., C. W. Willimott, 1882.—Laurentian, A. (3444.)

C.—STRATIGRAPHICAL COLLECTION OF ROCKS.

Table-cases 1—23. This collection comprises between eight and nine thousand specimens representing the Laurentian, Huronian, Cambrian, Cambro-Silurian, Silurian, Devonian, Carboniferous, Triassic, Cretaceous and Tertiary systems as occurring in the Dominion.

and Owing to the limited accommodation it has been found impossible to exhibit more than some three thousand of the more typical of the above specimens. These are shown in table-cases 1 to 23 and upright table-cases 1 to 18—the remainder being, for the most part, contained in the drawers under the table-cases.

Upright
table-cases
1—18.

The naming, labelling and arrangement of these rocks is being conducted by Mr. W. F. Ferrier. On completion of the same a separate catalogue of this collection will be issued.

Table-cases 24—33. A systematic collection of rocks is shown in table-cases 27 to 33. A typical series of rocks from British Columbia will be found in table-cases 24 to 26, and a like series from the Rocky Mountains, as also one illustrating a section across the latter, together with another from the North-west Territory, occupy, respectively, upright table-cases 19 and 20, 21, and 22 to 24.

Upright
table-cases
19—24.

D.—SPECIMENS ILLUSTRATING STRUCTURAL AND PHENOMENAL GEOLOGY.

These exemplify—Stratification : lamination : anticlines : synclines : faults : contortions : glacial scoring : pot-holes : slickensides : dendrites : rain-prints : ripple-marks : mud-cracks : concretionary structure : weathering, etc., etc.

The following are shown in upright wing-case 29 (in part) and upright wall-cases 30, 31 and 32. Those more particularly illustrating weathering occupy cases arranged over upright table-cases 2 and 3.

- Banded veinstone** (pyroxene and apatite).—Lot 18, range XII. of Buckingham, Ottawa county, Q.—Coll., B. J. Harrington, 1878.—Laurentian, A. (2512.) Upright wing-case 29.
- (pyroxene and apatite).—High Rock mine, lot 5, range VII. of Portland West, Ottawa county, Q.—Coll., C. W. Willimott, 1889.—Laurentian, A. (2563.)
- (calcite and hornblende).—Lot 15, range VI. of Templeton, Ottawa county, Q.—Coll., B. J. Harrington, 1878.—Laurentian, A. (2534.)
- Concretionary veinstone.**—Lot 19, range XII. of Templeton, Ottawa county, Q.—Coll., B. J. Harrington, 1878.—Laurentian, A. (2516.)
- No. 11 pit, High Rock mine, lot 5, range VII. of Portland West, Ottawa county, Q.—Coll., C. W. Willimott, 1889.—Laurentian, A. (2564.)
- Geode of calcite** (nail-head spar).—Teny Cape, Hants county, N.S.—Coll., C. W. Willimott, 1883.—Carboniferous, G 1. (4814.)
- Pyrite vein.**—Thirty Island Lake, lot 6, range III. of Bedford, Frontenac county, O.—Coll., C. W. Willimott, 1883.—Laurentian, A. (4663.)
- Limestone** (weathered).—Salmon River Falls, above Bull Lake, Kennebec, Frontenac county, O.—Laurentian, A. (4802.)
- Anorthosite rock** showing an alteration of rude bands, differing from each other in composition or in the size of the minerals composing them.—Road between ranges V. and VI. of Wexford, Montcalm county, Q.—Coll., F. D. Adams, 1887.—Laurentian, A. (5217.)
- Gneissic rock.**—On the road north of St. Donat, township of Lussier, Montcalm county, Q.—Coll., F. D. Adams, 1885.—Laurentian, A. (5218.)
- Gneiss** (a highly contorted band of) in crystalline limestone.—Discharge of Lac des Iles, township of Cartier, Joliette county, Q.—Coll., F. D. Adams, 1887.—Laurentian, A. (5219.)
- Contorted gneiss.**—Grenville, Argenteuil county, Q.—Laurentian, A. (4733.)
- Dyke, cutting gneiss.**—Loc. (?) (4804.)
- Brecciated trap.**—Lot 6, range III. of Grenville, Argenteuil county, Q.—Laurentian, A. (2555.)
- Fossiliferous limestone** enclosed in trap.—Bay Chaleurs, between Little Cascapedia and Capeling Rivers, Bonaventure county, Q.—(4811.)
- Trap conglomerate.**—Dalhousie, Restigouche county, N.B. (4812.)

SPECIMENS ILLUSTRATING STRUCTURAL AND PHENOMENAL GEOLOGY—*Continued.*

- Upright
wing-case
29.—
Continued.
- Quartz conglomerate.**—Kaladar, Addington county, O.—Coll., A. R. C. Selwyn, 1891. (2576.)
- Conglomerate.**—Two miles west of Sudbury junction, C. P. R., district of Nipissing, O.—Huronian, B. (2543.)
- Hornblende granite,** with included highly altered fragments of Triassic volcanic rocks becoming incorporated with the mass.—Tucker Point, north shore of Thurlow Island, B.C.—Coll., G. M. Dawson, 1885. (5383.)
- Agglomerate,** composed of altered amygdaloidal fragments, and in composition probably diabase.—Discovery Passage, Vancouver Island, B.C.—Coll., G. M. Dawson, 1885.—Triassic, H. (5384.)
- composed of altered amygdaloidal fragments and lithologically, probably a much decomposed diabase.—Near entrance to south-east arm of Quatsino Sound, Vancouver Island, B.C.—Coll., G. M. Dawson, 1885.—Triassic, H. (5385.)
- Upright
wall-case
30.
- Limestone** showing glacial striae.—Grandique, Arichat, Richmond county, N.S.—Coll., A. H. Foord, 1881.—Carboniferous, G 1. (4671.)
- showing glacial striae.—Belleville, Hastings county, O.—Cambro-Silurian, D 2. (4672.)
- Gneiss** showing glacial striae.—North-east of Point des Monts lighthouse, Saguenay county, Q.—Coll., J. Richardson, 1860.—Laurentian, A. (4673.)
- Limestone** showing glacial striae in two directions.—From cutting below lock 2. Beveridge's Bay, Tay Canal, near Perth, Lanark county, O.—Presented by W. J. Morris, 1884.—Cambrian, C. (4918.)
- Argillite** showing slickensides.—Albion Mines, Pietou county, N.S.—Coll., E. Hartley, 1868.—Carboniferous, G. (4707.)
- Slate** showing slickensides.—Lake St. John, Chicoutimi county, Q.—Coll., J. Richardson, 1870.—Cambro-Silurian, D 3. (4716.)
- Iron and copper pyrites** showing slickensides.—Crown mine, Ascot, Sherbrooke county, Q.—Presented by Mr. Leckie.—Pre-Cambrian, B? (4974.)
- Slate** showing slickensides.—Elgin mine, Paipoonge, district of Thunder Bay, O.—Coll., A. R. C. Selwyn, 1887.—Cambrian, C. (5635.)
- Quartz** showing slickensides.—Enterprise ledge, Lowhee Creek, district of Cariboo, B.C. (5360.)
- with grooved friction surface.—Bay Chaleurs. (4713.)
- Sandstone** with dendrites.—Beauharnois, Beauharnois county, Q.—Coll., W. E. Logan, 1852.—Cambrian, C 1. (2529.)
- Mica** with dendrites.—Clarendon, Frontenac county, O.—Presented by W. Sheppard, 1883.—Laurentian, A. (4848.)
- Limestone** with dendrites.—Sydney, Cape Breton county, N.S.—Carboniferous, G. (4669.)
- Sandstone** with dendrites, Bar River, Lake Huron, O.—Coll., T. C. Weston, 1882. (4929.)
- Limestone** with casts of mud-cracks.—The Citadel, Quebec city, Q.—Coll., T. C. Weston, 1890. (4708.)
- Sandstone** exhibiting casts of mud-cracks. Beveridge's Bay, Tay Canal, near Perth, Lanark county, O.—Presented by W. J. Morris, 1884.—Cambrian, C 1. (4919.)
- showing highly relieved casts of shrinkage cracks.—Long Cove Gaspé county, Q.—Coll., W. E. Logan, 1844.—Devonian, F. (4757.)

SPECIMENS ILLUSTRATING STRUCTURAL AND PHENOMENAL GEOLOGY—*Continued.*

- Rain-prints** on clay, Montreal, Hochelaga county, Q.—Coll., T. C. Weston. (4703.)
- on argillite.—Adams' Mill, Maccan River, Southampton, Cumberland county, N.S.—Carboniferous, G. (4704.)
- on argillite.—From the sixth cutting east of Riversdale station, Intercolonial Railway, Colchester county, N.S.—Coll., T. C. Weston, 1886. (5308.)
- Clay** showing lamination.—Hanover, Brant county, O.—Coll., C. W. Willimott, 1885. (5086.)
- Chert** showing banded structure.—Thunder Bay, Lake Superior, O.—Cambrian, C 1. (4675.)
- Sandstone** showing lines of bedding.—Lot 12, range IX. of Pittsburgh, Frontenac county, O.—Cambrian, C 1. (4734.)
- showing lines of bedding.—L'Anse au More, Labrador.—Coll., T. C. Weston, 1872.—Cambrian, C. (4677.)
- Banded quartzite** showing fault.—Pillage Bay, seigniory of Mingan, Q.—Coll., J. Richardson, 1872.—Cambrian, C 1. (4699.)
- Argillite** showing bedding.—Trois Pistoles, Temiscouata county, Q.—Coll., J. Richardson, 1858.—Cambrian, C. (4678.)
- Slate** showing planes of stratification and cleavage.—Metapedia River, Q.—Coll., W. E. Logan, 1844.—Silurian, E. (4679.)
- Sandstone** showing false bedding.—Section 28, township of Meredith, district of Algoma, O.—Coll., T. C. Weston, 1882. (4926.)
- Quartz** with striated surface.—Oldham, Halifax county, N.S.—Coll., A. R. C. Selwyn, 1870.—Cambrian, C. (4694.)
- Fossiliferous limestone** with impressions left by pebbles.—From the bottom of Georgian Bay, off White Cloud Island, Lake Huron, O.—Coll., R. Bell, 1859. (4696.)
- Limestone** marked with sharp deep angular cavities, supposed to have held lenticular crystals of calcite.—Pittsburgh, Frontenac county, O.—Coll., A. Murray, 1852.—Cambro-Silurian, D. (4690.)
- showing impression left on removal of a crystal of mica by weathering.—North Elmsley, Lanark county, O.—Coll., T. C. Weston.—Laurentian, A. (4701.)
- Dolomite** with hopper-shaped impression, supposed to have been formed by crystals of common salt.—From near York, Haldimand county, O.—Silurian, E 5. (4793.)
- Limestone columns** (crystallites).—Kingston, Frontenac county, O.—Coll., W. E. Logan, 1842.—Cambro-Silurian, D. (4685.)
- Crystallites** penetrating chert imbedded in limestone.—From near Port Dover, Norfolk county, O.—Devonian, F 1. (4680.)
- Limestone** showing unequal weathering.—Montreal, Hochelaga county, Q.—Cambro-Silurian, D. (4796.)
- showing unequal weathering.—Mount Wissick (Mount Lennox), Lake Temiscouata, Temiscouata county, Q.—Coll., H. M. Ami, 1887. (5566.)
- showing unequal weathering.—Crow Lake, Marmora, Hastings county, O.—Coll., H. G. Vennor.—Laurentian, A. (4676.)
- showing unequal weathering.—Tudor, Hastings county, O.—H. G. Vennor.—Laurentian, A. (4695.)
- Chert rock** showing unequal weathering.—Cherty Point, Lake Superior, O.—Coll., W. E. Logan, 1846.—Cambrian, C. (4692.)
- Dolomitic limestone nodules, in limestone**—showing unequal weathering.—Silver Mountain, district of Thunder Bay, O.—Coll., E. D. Ingall, 1886.—Cambrian, C. (5575.)

Upright
wall-case
30.—
Continued.

SPECIMENS ILLUSTRATING STRUCTURAL AND PHENOMENAL GEOLOGY—*Continued.*

Upright
wall-case
30.—
Continued.

Columnar limestone.—Kettle Point, Bosanquet, Lambton county, O.—Coll., H. M. Ami, 1883.—Devonian, F 3. (4684.)

Columnar basalt.—Cape d'Or, Cumberland county, N.S.—Coll., S. Barlow, 1875.—Triassic, H. (4766.)

Limestone enclosing pebble of chert.—From bank of the Rideau River, near Archville, Carleton county, O.—Presented by G. Russell, 1883. (4709.)

Limestone conglomerate.—Road between Quisibis and Siegas Rivers, Madawaska county, N.B.—Coll., L. W. Bailey.—Silurian, E. (4682.)

Jasper conglomerate.—Michipicoten Island, Lake Superior, O.—Coll., W. E. Logan, 1846. (4810.)

Conglomerate.—Bonnehère River, Renfrew county, O.—Recent. (4681.)

Contorted shale.—Albert Mines, Albert county, N.B.—Coll., R. W. Ells, 1876.—Carboniferous, G 1. (4719.)

— Beliveau, Westmoreland county, N.B.—Coll., W. McQuat, 1875.—Carboniferous, G 1. (4917.)

Contorted limestone.—South side of River St. Lawrence, Gaspé county, Q.—Cambrian, C. (4735.)

Contorted quartzite.—Free claim, Renfrew, Hants county, N.S.—Coll., A. R. C. Selwyn, 1870.—Cambrian, C. (4720.)

Contorted limestone.—From point three miles above River Ste. Anne, Gaspé county, Q.—Coll., J. Richardson, 1858.—Cambrian, C 3. (4722.)

— One mile and a half above Marsouin River, Gaspé county, Q.—Coll., T. C. Weston, 1878.—Cambrian, C. (4737.)

Contorted chert.—New Glasgow, Terrebonne county, Q.—Coll., H. G. Vennor, 1879.—Cambro-Silurian, D. (4723.)

Contorted mica slate.—Falls of the River du Loup, Beauce county, Q.—Coll., A. R. C. Selwyn. (4736.)

Contorted gneiss.—Lot 28, range I. of McDougal, district of Parry Sound, O.—Coll., R. Bell, 1876.—Laurentian, A. (4721.)

Contorted quartz.—Loc. ? (4744.)

Contorted quartzite.—Loc. ? (4745.)

Contorted band of quartz in limestone.—South half of lot 17, range II. of Grenville, Argenteuil county, Q.—Coll., C. W. Willimott, 1889. Laurentian, A. (4715.)

Contorted quartzite.—Grenville, Argenteuil county, Q.—Laurentian, A. (4725.)

Contorted chert rock.—Lake Mistassini, Q.—Coll., J. Leitch, 1871. (4742.)

Corrugated limestone.—Scaumenac Bay, Bonaventure county, Q.—Coll., A. H. Ford.—Devonian, F. (4724.)

Corrugated slate.—Isaac's Harbour, Guysborough county, N.S.—Coll., A. R. C. Selwyn, 1870.—Cambrian, C. (4741.)

Corrugated argillite (caused by the intersection of cleavage and bedding planes).—Oldham, Halifax county, N.S.—Coll., A. R. C. Selwyn, 1870.—Cambrian, C. (4731.)

Corrugated mica schist.—Ming's Bight, Newfoundland.—Presented by Rev. M. Harvey. (4746.)

Corrugated slate.—Eastern Townships, Q. (4689.)

Corrugated limestone.—Little Métis, Rimouski county, Q.—Coll., J. Richardson, 1878.—Cambrian, C. (4740.)

— Eddy Brook, Melbourne, Richmond county, Q.—Coll., T. C. Weston. (4743.)

Upright
wall-case
31.

SPECIMENS ILLUSTRATING STRUCTURAL AND PHENOMENAL GEOLOGY—*Continued.*

- Contorted iron slate.**—Sutton, Brome county, Q.—Pre-Cambrian, B? (4726.)
- Corrugated quartzose mica schist.**—Melbourne, Richmond county, Q.—Pre-Cambrian, B? (4738.)
- Contorted chloritic schist.**—Lake of the Woods, district of Rainy River, O.—Coll., A. C. Lawson, 1882.—Huronian, B. (721.)
- Corrugated limestone.**—Echo Lake, district of Algoma, O.—Coll., T. C. Weston, 1882.—Huronian, B. (4711.)
- Limestone** showing rill-marks.—Kaministiquia River, district of Thunder Bay, O.—Coll., A. Murray, 1848. (4751.)
- showing rill-marks.—Two miles above Marsouin River, Gaspé county, Q.—Coll., J. Richardson, 1858.—Cambrian, C. (4748.)
- Sandstone** showing rill-marks.—From cove below Grande Coupe, Gaspé county, Q. (4749.)
- showing rill-marks.—Island of Orleans, River St. Lawrence, Q.—Coll., T. C. Weston, 1870.—Cambrian, C. (4730, 4752.)
- showing ripple-marks.—Beauharnois, Beauharnois county, Q.—Coll., J. Richardson, 1859.—Cambrian, C. (4702.)
- showing ripple-marks.—Long Cove, Gaspé county, Q.—Coll., W. E. Logan, 1844.—Devonian, F. (4750.)
- showing ripple-marks.—Upper Lake, Thessalon River, district of Algoma, O.—Coll., A. Murray, 1848. (4727.)
- Limestone** with wrinkled surface.—From the Citadel, Quebec City, Q.—Coll., T. C. Weston, 1890. (4706.)
- Geyser pipe.**—Three Rivers, St. Maurice county, Q. (4747.)
- Concretionary limestone.**—From near New Glasgow, Pictou county, N.S.—Coll., W. E. Logan, 1868.—Carboniferous, G. (4753.)
- Small's lot, Little Harbour, Pictou county, N.S.—Coll., W. E. Logan, 1868.—Carboniferous, G. (4756.)
- Concretionary sandstone.**—Woodworth Cove, King's county, N.S.—Triassic, H. (4760.)
- Concretionary argillite.**—Albert Mines, Albert county, N.B.—Coll., R. W. Ellis, 1876.—Carboniferous, G 1. (4776.)
- Concretionary trap.**—From 550 yards west of the lighthouse, Point Prim, Digby Gut, Digby county, N.S.—Coll., Prof. How, 1862. (4787.)
- Concretionary markings in slate.**—Torbay Road, a mile and a quarter from St. John's, St. John's county, Q.—Coll., T. C. Weston. (4774.)
- Concretionary sandstone.**—Abittibi River, district of Algoma, O.—Coll., A. S. Cochrane, 1877.—Silurian, E. (4765.)
- Spheroidal concretionary diorite.**—Small island west of Midsummer Island, Queen Charlotte Sound, B.C.—Coll., G. M. Dawson, 1885. (5417.)
- Spheroidal concretion** (radiated columnar limestone).—Kettle Point, Bosanquet, Lambton county, O.—Devonian, F 3. (4809.)
- Concretionary quartzite.**—Point near White Bear Hills, opposite Long Island, Hudson Bay.—Coll., R. Bell, 1877.—Cambrian, C. (4769.)
- Teska Harbour, seventeen miles south-west of Great Whale River, Hudson Bay.—Coll., R. Bell, 1877.—Cambrian, C 1. (4770.)
- Davieau's Island, Richmond Gulf (sixty miles north of inlet), Hudson Bay.—Coll., R. Bell, 1877.—Cambrian, C 1. (4772.)
- Quartzite concretions.**—South side of Little Whale River, Hudson Bay.—Coll., R. Bell, 1877.—Cambrian, C 1. (4768.)
- Limestone concretions** in trap.—Long Island, south-west of Little Whale River, Hudson Bay.—Coll., R. Bell, 1877. (4797.)

Upright
wall-case
31.—
Continued.

Upright
wall-case
32.

SPECIMENS ILLUSTRATING STRUCTURAL AND PHENOMENAL GEOLOGY—*Continued.*

Upright
wall-case
32.—
Continued.

- Nodular concretion of iron pyrites.**—Mouth of Nelson River, Hudson Bay.—Coll., R. Bell, 1879.—Recent. (4794.)
- Clay concretions.**—Apple Tree Point, Lake Champlain.—Coll., T. C. Weston. (4785.)
- From the beach at Kingston, Frontenac county, O.—Presented by W. G. Kidd, 1888. (5672.)
- Concretionary trap.**—Spider Island, Lake Huron, O.—Coll., T. C. Weston, 1882. (4783.)
- Concretionary limestone** in amygdaloid.—Lake Superior, O.—Coll., W. E. Logan, 1846.—Cambrian, C. (4779.)
- Concretionary nodule** with inclusions of iron pyrites.—Beaver mine, district of Thunder Bay, O.—Coll., A. R. C. Selwyn, 1888. (5720.)
- Concretionary limestone** (magnesian).—From near Hector, Hector Pass, Rocky Mountains, B.C. (5449.)
- Concretionary nodules** from the limestone beds.—Cat Point, Lake Winnipeg, Manitoba.—Coll., T. C. Weston, 1884.—Cambro-Silurian, D. (4885.)
- from the limestone beds.—Kinnow Bay, Lake Winnipeg, Manitoba.—Coll., T. C. Weston, 1884.—Cambro-Silurian, D. (4886.)
- from the limestone beds.—Bonus Island, Lake Winnipeg, Manitoba.—Coll., T. C. Weston, 1884.—Cambro-Silurian, D. (4887.)
- Limestone concretions** from the Miocene conglomerate.—Swift Current, district of Assiniboia, N.W.T.—Coll., T. C. Weston. (4888.)
- Concretionary nodules** from the Miocene conglomerate.—Swift Current, district of Assiniboia, N.W.T.—Coll., T. C. Weston, 1884. (4889.)
- Clay iron-stone nodules.**—Gaspé Bay, Gaspé county, Q.—Coll., W. E. Logan, 1844. (4777.)
- Swan River, Manitoba.—Coll., S. J. Dawson, 1874. (4786.)
- South Joggins, Cumberland county, N.S.—Coll., T. C. Weston, 1882.—Carboniferous, G. (4791.)
- Limestone concretions.**—Half a mile west of White Mud River, near the Fort Walsh trail, district of Assiniboia, N.W.T.—Coll., T. C. Weston, 1884. (4890.)
- Clay nodule** enclosing a fossil—*Mallotus villosus*.—Green's Creek, Gloucester, Carleton county, O.—Tertiary, L. (4778.)
- Clay nodules.**—Green's Creek, Gloucester, Carleton county, O.—Presented by James Fletcher, 1884. (5328.)
- Green's Creek, Gloucester, Carleton county, O.—Presented by Bro. Matthias, 1886. (4884.)
- Goulais River, district of Algoma, O.—Coll., R. Bell, 1875. (4780.)
- Two miles east of Little Whale River, Hudson Bay.—Coll., R. Bell, 1877. (4781.)
- About two miles up Little Whale River, Hudson Bay.—Coll., R. Bell, 1877. (4782.)
- Victoria, Vancouver Island, B.C.—Coll., J. Richardson, 1872. (4798.)
- Sandstone nodule** enclosing a fossil—*Desmoceras Beudanti*, Brongniart (Sp.) Cumshewa Inlet, Queen Charlotte Islands, B.C.—Coll., G. M. Dawson, 1878.—Cretaceous, K. (4790.)
- Sandstone nodules.**—Bank of the Rideau Canal, nine miles east of Kingston, Frontenac county, O.—Coll., A. R. C. Selwyn, 1888.—Cambrian, C I. (5567.)
- Limestone** showing cone-in-cone structure.—South Joggins, Cumberland county, N.S.—Coll., T. C. Weston, 1882.—Carboniferous, G. (5046.)

SPECIMENS ILLUSTRATING STRUCTURAL AND PHENOMENAL GEOLOGY—*Continued.*

- Trachyte** showing flow structure.—Masset Inlet, Queen Charlotte Islands, B. C.—Coll., G. M. Dawson, 1878. (4759.)
- Quartz geodes** from the Tertiary basalts.—East end of Kamloops Lake, B. C.—Coll., G. M. Dawson, 1877. (5550.)
- Mammillary quartz.**—Spencer Island, Cumberland county, N. S.—Coll., C. W. Willimott, 1888.—Triassic, H. (5666.)
- Stalagmite** from the Acadia coal-pit. Pictou county, N. S.—Presented by H. S. Poole, Stellarton, N. S. (3514.)
- Eroded boulder.**—Off Michipicoten Island, Lake Superior, O.—Coll., R. Bell, 1876. (4762.)
- Waterworn pebble** with “pot-hole.”—British Columbia.—Coll., J. Richardson. (4773.)
- Hematitic deposit** of Lacustrine formation.—Nova Scotia. (4784.)
- Limestone slab** with concentric markings.—Lake Winnipeg, Manitoba.—Coll., R. Bell.—Cambro-Silurian, D. (4763.)

Upright
wall-case
32.—
Continued.

SPECIMENS OF LAURENTIAN ROCKS IN WHICH DETAILS OF STRUCTURE ARE RENDERED APPARENT BY WEATHERING.

Of these, Nos. 5206--5216 are arranged over upright table cases 1, 2 and 3, and Nos. 5217, 5218 and 5219 are shown in upright wing-case 29.

- Laurentian limestone** with inclusions of gneiss rock. The latter are usually much elongated in shape, and often considerably contorted, but being approximately parallel to one another, give to the whole a sort of flow structure. Loc.—Island in Lac Ouareau, township of Lussier, Montcalm county, Q.—Coll., F. D. Adams. (5206.)
- Foliated anorthosite rock.** Loc.—Rivière aux Porcupine, Chicoutimi county, Q.—Coll., F. D. Adams. (5207.)
- Foliated anorthosite rock.** Loc.—Lot 34, range I. of the township of Bourget, Chicoutimi county, Q.—Coll., F. D. Adams. (5208.)
- Massive anorthosite rock.** Loc.—Shipshaw River, range IX. of the township of Simard, Chicoutimi county, Q.—Coll., F. D. Adams. (5209.)
- Porphyritic anorthosite rock.** Loc.—Bank of North River, range X. of the township of Abercrombie, Terrebonne county, Q.—Coll., F. D. Adams. (5210.)
- Foliated orthoclase gneiss.** Loc.—East shore of Lake Archambault, township of Lussier, Montcalm county, Q.—Coll., F. D. Adams. (5211.)
- White anorthosite rock** with imbedded masses of a plagioclase felspar, angular in shape and generally elongated in one direction. The presence of a few strings of iron-ore or lime-magnesia silicates, coinciding in direction with the longer axis of the plagioclase masses, gives to the rock, in places, a somewhat banded appearance. Loc.—Rivière aux Sables, four miles from Lake Kenogami, township of Jonquière, Chicoutimi county, Q.—Coll., F. D. Adams. (5212.)
- Augen gneiss** (eye gneiss).—The “Augen” or eyes consist of orthoclase felspar, bounded in every case by a narrow zone of plagioclase (?) felspar. Loc.—Little Peribonka River, forty-seven miles from Peribonka River, Chicoutimi county, Q.—Coll., F. D. Adams. (5213.)

SPECIMENS OF LAURENTIAN ROCKS IN WHICH DETAILS
OF STRUCTURE ARE RENDERED APPARENT
BY WEATHERING—*Continued.*

- Coarse grained, massive, anorthosite rock**, occurs associated with the medium grained variety (No. 5215). Loc.—Bank of Shipshaw River, range IX, of the township of Simard, Chicoutimi county, Q.—Coll., F. D. Adams. (5214.)
- Medium grained, massive, anorthosite rock**, occurs associated with the coarser variety (No. 5214). Loc.—Bank of Shipshaw River, township of Simard, Chicoutimi county, Q.—Coll., F. D. Adams. (5215.)
- Anorthosite rock**.—Shows the light colour and general characters assumed by the rock of the great anorthosite area of Morin, Wexford, Beresford and the neighbouring townships, near its contact with the Laurentian gneiss on its eastern and southern sides. Loc.—Lot 50, range III, of Wexford, Montcalm county, Q.—Coll., F. D. Adams. (5216.)
- Anorthosite rock** showing an alteration of rude bands, differing from each other in composition, or in the size of the minerals composing them. Loc.—Road running between ranges V. and VI., township of Wexford, Montcalm county, Q.—Coll., F. D. Adams, 1884. (5217.)
- Gneissic rock**. Loc.—On road north of St. Donat, township of Lussier, Montcalm county, Q.—Coll., F. D. Adams, 1885. (5218.)
- Gneiss**, a highly contorted band of, in crystalline limestone. Loc.—Discharge of Lac des Iles, about one mile north-west of the rear line of the township of Cartier, Joliette county, Q.—Coll., F. D. Adams, 1887. (5219.)

INDEX TO,
AND SYNOPSIS OF CONTENTS OF, CASES.

UPRIGHT WALL AND WING-CASES.

(Of these Nos. 1, 2, 11, 14, 15, 30, 31 and 32 are wall-cases, and the remainder wing-cases.)

Case.	Page.
1. Gold and silver ores.....	37
2. Silver and lead ores.....	49
3. Antimony, arsenic, chromium, molybdenum, nickel, sulphur and zinc ores.....	54
4. Manganese and iron ores.....	62
5. Iron ores.....	64
6. Copper ores.....	83
7. do do.....	85
8. Fossil fuel, of Cretaceous and Laramie age.....	93
9. do do do do.....	100
10. do do of the Carboniferous system.....	103
11. Petroleum, mineral tar, bitumen, etc.....	104
12. Roofing slates, slate flooring tiles, school slates.....	106
13. Limestones (building stones).....	107
14. do dolomites, sandstones (building stones).....	109
15. Sandstones, granites, gneisses, syenites, etc. (building stones).....	111
16. Brick-clays and bricks, common and ornamental.....	122
17. do do do do and drain tiles....	125
18. Raw lime and cement stones and common and hydraulic limes....	127
19. Gypsum, anhydrite and plaster-of-Paris.....	129
20. Iron ochres, barytes, steatite and prepared mineral pigments.....	131
21. Graphite, and articles manufactured therefrom....	134
22. Asbestos (the variety of serpentine commercially so-called) soap-stone or steatite, potstone or chlorite, fire-clay.....	138
23. Micas—Biotite, muscovite and phlogopite.....	141
24. Brines, salt, and mineral waters.....	142
25. Minerals applicable to the fine arts and jewellery.....	145
26. do do do do.....	147
27. Apatite, phosphatic rock, gypsum and marls.....	150

INDEX TO, AND SYNOPSIS OF CONTENTS OF, CASES—*Con.***UPRIGHT WALL AND WING-CASES—Continued.**

Case.	Page.
28. Sandstones and mica slates (and articles manufactured therefrom), infusorial earth, silicious sands, arenaceous marls and silts—for grinding and polishing purposes. Sandstone and sand for glass-making, moulding sand, and soap clay used as a detergent.....	160
29. Miscellaneous minerals and rocks, and specimens illustrating structural and phenomenal geology.....	164, 167
30. Specimens illustrating structural and phenomenal geology.....	168
31. do do do do do	170
32. do do do do do	171

TABLE-CASES.

1-23. Stratigraphical collection of Canadian rocks.....	166
24-26. Typical series of rocks from British Columbia.....	166
27-33. Systematic collection of rocks.....	166
34. Apatite, specimens illustrating distribution of.....	153
35. Apatite, specimens illustrating distribution of (in part), and mineral associations of.....	154
36. Apatite, mineral associations of.....	155
37. Graphite, specimens illustrating distribution of, and mineral associations of.....	136
38. Asbestos (chrysotile), specimens illustrating distribution of.....	140
39-41. Copper ores, specimens illustrating distribution of.....	86—92
42-46. Iron ores, specimens illustrating distribution of.....	67—78
47. Gold and silver ores from British Columbia.....	41
48. do do do do	43
49-63. Systematic collection of minerals.....	5—29
69. Minerals applicable to the fine arts and jewellery, cut and polished specimens of.....	149
70. Gold and silver ores from British Columbia—continued from case 48.	45
71. Silver ores from the Thunder Bay mining region, Ont.....	48

SEPARATE TABLE-CASES.

Case.	
A. A large specimen of associated pyroxene, hornblende, apatite, calcite and biotite.....	34
B. A large specimen of mountain cork.....	34
C. A large group of crystals of calcite (dog-tooth spar) in part coated with pyrite.....	34
D. A large specimen of associated albite, tourmaline, muscovite and quartz.....	34
E. A large specimen of biotite.....	34
F. A large group of amethyst crystals associated with crystals of fluorite coated with pyrite.....	34

INDEX TO, AND SYNOPSIS OF CONTENTS OF, CASES—*Con.***UPRIGHT TABLE-CASES.**

(That is to say the cases immediately at the back of, and vertical to, the table-cases.)

Case.	Page.
1-18. Stratigraphical collection of Canadian rocks.....	166
19. Typical series of rocks—Rocky Mountains.....	166
20. do do do do.....	166
21. Typical series of rocks to illustrate section across the Rocky Mountains.....	166
22-24. Typical series of rocks—North-west Territory.....	166
25. Ores of antimony, arsenic, bismuth and nickel (in part), specimens illustrating the distribution of.....	57
26. Ores of nickel (continued from case 25) and zinc, specimens illustrating the distribution of.....	58
27. Apatite, mineral associations of.....	157
28. do do do.....	159
29. Graphite, specimens illustrating the distribution of.....	136
30. Asbestos (chrysotile) and articles manufactured from it.....	140
31. Ores of chromium, manganese, molybdenum and sulphur, specimens illustrating the distribution of.....	60
32. Silver-lead and lead ore, specimens illustrating the distribution of.	52
33. Ilmenite or titanite iron and iron sands, specimens illustrating the distribution of.....	78
34-36. Hematite, limonite and magnetite, mineral associations of.....	79 to 83
37-44. Minerals pertaining to systematic collection of minerals.....	30 to 33

INDEX TO NUMBERS ON SPECIMENS.

NOTE.—Specimens having a higher number than 6549, are additions since the completion of this catalogue.

No.	Page.	No.	Page.	No.	Page.	No.	Page.	No.	Page.	No.	Page.
1	66	49	44	96	63	144	66	189	50	233	45
2	67	50	44	97	65	145	83	190	51	234	85
3	66	51	44	98	66	146	45	191	51	235	46
4	66	52	44	99	86	148	63	192	48	236	85
5	66	53	44	100	66	149	71	193	48	237	21
6	66	54	44	102	73	150	64	194	52	238	51
7	67	55	44	103	65	151	65	195	63	239	84
8	66	56	44	104	67	152	65	196	63	240	23
9	67	57	44	105	63	153	45	197	63	241	84
10	67	60	45	106	62	154	45	198	63	242	52
11	66	61	45	107	162	155	45	199	65	244	26
12	67	62	45	108	162	156	45	200	65	245	84
13	66	63	45	110	66	157	45	201	52	246	46
14	67	64	45	111	64	158	45	202	48	247	16
15	66	65	45	112	65	159	45	203	65	248	91
16	64	66	62	113	66	160	45	204	85	249	85
17	64	67	62	114	67	161	45	205	84	250	85
18	24	68	62	115	64	162	45	206	85	251	84
19	24	69	62	116	70	163	64	207	85	252	84
20	67	70	62	117	63	164	62	208	84	253	84
21	67	71	62	118	66	165	45	209	85	254	17
24	71	72	62	119	63	166	64	210	48	255	52
25	64	73	64	120	70	167	65	211	84	256	84
26	66	74	62	121	63	168	25	212	85	257	85
27	64	75	67	122	65	169	45	213	25	258	85
28	66	76	64	123	94	170	85	214	26	259	86
29	64	77	67	124	63	171	84	215	84	260	74
30	66	78	65	125	62	172	64	216	48	261	46
31	66	79	64	126	63	173	84	217	84	262	84
32	64	80	64	127	63	174	63	218	85	263	83
34	66	81	64	128	62	175	64	219	48	265	83
35	64	82	62	130	63	176	64	220	85	266	46
36	64	83	62	131	62	177	63	221	85	267	83
37	64	85	62	132	65	178	84	222	20	268	46
38	67	86	63	133	63	179	83	223	85	269	46
39	61	87	62	134	65	180	65	224	85	270	46
41	62	88	62	135	66	181	51	225	45	271	46
42	43	89	65	136	63	182	52	226	45	272	46
43	43	90	65	138	65	183	51	227	45	273	86
44	43	91	65	139	69	184	62	228	45	275	46
45	43	92	73	140	65	185	49	229	45	276	85
46	44	93	63	141	65	186	49	230	84	278	84
47	44	94	65	142	64	187	51	231	19	279	85
48	44	95	63	143	151	188	51	232	45	280	46

INDEX TO NUMBERS ON SPECIMENS.—Continued.

No.	Page.	No.	Page.	No.	Page.	No.	Page.	No.	Page.	No.	Page.
281	46	342	51	401	39	468	40	534	107	589	113
282	46	343	48	402	39	469	72	535	104	590	110
283	84	344	49	403	39	471	37	536	104	591	113
284	18	345	58	405	39	472	56	537	104	592	113
285	83	347	148	406	39	473	37	538	104	594	113
286	83	348	55	409	39	475	93	539	56	595	111
287	84	349	51	412	39	476	93	540	104	596	111
288	85	350	54	415	38	477	93	541	109	597	111
289	46	351	54	416	40	478	93	542	104	598	111
290	58	352	54	417	38	479	93	543	31	599	112
291	86	354	54	418	40	485	56	544	104	600	112
292	46	355	52	420	39	487	104	545	106	601	123
293	86	356	59	421	37	488	104	546	107	602	125
294	84	358	51	422	37	489	104	547	107	603	126
295	46	359	56	423	37	490	104	548	107	604	123
296	46	360	55	424	39	491	104	549	107	605	153
298	86	361	55	425	37	492	104	550	107	606	64
299	86	362	68	427	37	493	104	551	147	608	32
300	86	363	55	428	37	496	101	552	106	609	123
301	85	364	56	429	38	497	104	553	31	611	32
303	86	365	57	430	38	498	98	554	107	613	127
307	86	366	51	435	37	500	108	555	127	614	32
308	86	367	50	436	38	501	104	556	125	615	31
309	50	368	56	437	37	502	108	557	108	616	31
310	50	369	57	438	39	503	104	558	125	617	131
311	52	370	9	439	38	504	104	559	107	618	129
312	50	371	39	440	56	505	103	560	107	619	123
313	51	372	38	441	18	506	104	561	108	620	129
314	51	373	38	442	18	507	104	562	16	621	130
315	50	374	38	443	70	508	104	563	108	622	135
316	51	376	148	444	41	509	104	564	107	623	130
318	53	377	38	445	40	510	104	566	108	624	129
319	51	378	37	446	40	511	105	567	108	625	130
320	51	379	12	447	40	512	104	568	108	626	129
321	51	380	38	448	40	513	151	569	112	627	129
322	51	381	37	449	40	515	104	570	109	628	129
323	50	382	37	450	40	516	104	571	107	629	130
324	38	383	50	451	40	517	27	572	109	630	109
325	51	384	37	452	40	518	104	573	109	631	111
326	54	385	37	453	40	519	104	574	111	632	129
327	54	386	37	454	40	520	104	575	110	633	129
328	51	387	37	455	40	521	104	576	111	634	129
329	61	389	38	456	40	522	104	577	111	635	112
330	57	390	38	457	40	523	104	578	111	636	112
331	50	391	39	458	40	524	103	579	111	637	112
332	50	392	37	459	40	525	103	580	112	638	162
333	39	393	38	460	41	526	103	581	111	639	130
334	55	394	39	461	41	527	103	582	111	640	130
335	49	395	40	462	40	528	103	583	112	641	130
336	30	396	16	463	40	529	103	584	113	642	129
337	49	397	39	464	40	530	103	585	113	643	130
338	50	398	39	465	40	531	32	586	113	644	101
339	51	399	39	466	40	532	103	587	110	645	130
340	164	400	39	467	40	533	103	588	30	646	130

INDEX TO NUMBERS ON SPECIMENS.—*Continued.*

No.	Page.	No.	Page.	No.	Page.	No.	Page.	No.	Page.	No.	Page.
647	131	708	132	762	152	816	139	881	115	940	119
648	131	709	130	763	152	817	139	882	115	941	113
649	131	710	133	764	152	818	139	883	115	944	119
650	130	711	105	765	153	819	139	884	115	945	162
651	129	712	105	766	152	821	141	885	118	947	152
652	131	713	106	767	114	822	146	886	115	948	119
653	131	714	105	768	152	823	128	887	115	949	150
654	127	715	105	769	152	824	146	888	115	950	119
655	105	716	105	770	152	825	107	889	105	951	151
656	129	717	105	771	152	826	145	890	118	952	152
657	152	718	105	772	130	828	148	891	115	953	151
658	129	719	106	773	128	830	145	893	118	954	116
659	130	720	131	774	151	832	147	894	115	955	116
660	128	721	171	775	130	834	146	895	115	956	151
661	161	722	105	776	130	835	164	896	134	957	151
662	128	723	105	777	130	836	146	897	115	958	151
666	151	724	131	778	152	838	148	898	115	959	151
667	162	725	114	779	130	840	105	899	120	960	119
668	129	726	131	780	131	841	146	901	115	961	116
669	129	727	114	781	151	842	148	902	95	962	116
670	129	728	131	782	114	843	145	903	115	963	117
671	129	729	131	783	118	844	145	904	116	964	119
672	162	730	131	784	114	845	105	905	116	965	100
673	161	731	132	785	151	846	146	906	116	966	101
674	146	732	132	786	151	847	146	907	119	968	102
675	114	733	132	787	141	848	146	908	116	970	125
676	161	734	132	788	141	850	148	909	105	971	86
677	114	735	132	789	134	851	105	910	105	972	48
678	162	736	132	790	135	853	147	911	31	973	50
679	161	737	130	791	135	854	146	912	116	974	50
680	161	738	132	792	141	855	146	913	119	975	150
681	161	739	132	793	135	856	149	916	116	976	117
682	161	740	132	794	141	857	146	917	116	978	41
683	161	741	132	795	133	858	146	918	101	979	41
684	161	742	132	796	135	859	146	919	116	980	39
685	161	743	132	797	114	860	126	920	98	981	39
687	161	744	151	798	135	861	126	921	95	982	39
688	161	745	130	799	135	862	126	922	116	983	41
689	161	746	134	800	139	863	147	923	94	984	40
690	161	747	134	801	135	864	148	924	116	985	40
691	160	748	134	802	135	865	141	925	116	986	39
692	161	749	133	803	135	867	141	926	116	987	105
693	152	750	134	804	138	868	141	927	98	988	119
694	129	751	134	805	148	869	141	928	134	989	117
696	56	752	134	806	114	870	114	929	116	990	141
697	54	753	162	807	150	871	114	930	116	991	117
698	131	754	162	808	114	872	114	931	119	992	117
701	134	755	162	809	114	873	114	932	119	993	117
702	134	756	152	810	118	875	114	933	119	994	134
703	112	757	152	811	139	876	114	934	119	995	148
704	112	758	152	812	139	877	114	935	119	996	117
705	112	759	153	813	139	878	115	936	116	997	117
706	130	760	130	814	114	879	115	937	119	999	39
707	130	761	130	815	139	880	115	938	119	1000	39

INDEX TO NUMBERS ON SPECIMENS.—*Continued.*

No.	Page.	No.	Page.	No.	Page.	No.	Page.	No.	Page.	No.	Page.
1001	40	1057	121	1111	122	1169	110	1227	160	1284	7
1002	40	1058	121	1112	122	1170	110	1228	5	1285	59
1003	40	1059	121	1113	122	1171	150	1229	138	1286	27
1004	39	1060	121	1114	122	1172	107	1230	5	1287	59
1005	39	1061	121	1115	122	1173	109	1231	5	1288	7
1006	39	1062	121	1116	122	1174	161	1232	5	1289	7
1007	40	1063	121	1117	122	1175	110	1233	5	1290	15
1008	40	1064	121	1118	122	1176	110	1234	6	1291	7
1009	40	1065	121	1119	122	1177	111	1235	5	1292	7
1010	40	1066	121	1120	122	1178	111	1236	5	1293	7
1011	38	1067	121	1121	122	1179	111	1237	5	1294	11
1012	64	1068	121	1122	122	1180	113	1238	5	1295	7
1013	98	1069	121	1123	122	1181	113	1240	6	1296	7
1016	104	1070	121	1124	122	1182	112	1241	7	1297	7
1017	105	1071	121	1128	150	1184	113	1242	5	1298	17
1018	94	1072	121	1130	113	1185	117	1243	5	1299	8
1019	94	1073	121	1131	124	1186	127	1244	5	1300	8
1020	151	1074	121	1132	139	1187	128	1245	5	1301	20
1021	104	1075	121	1133	162	1188	128	1246	6	1303	8
1022	104	1076	121	1134	125	1189	128	1247	5	1304	8
1023	102	1077	121	1135	127	1190	128	1248	5	1305	8
1024	151	1078	121	1136	123	1191	128	1249	5	1306	8
1025	120	1079	121	1137	125	1192	128	1250	137	1307	8
1026	120	1080	121	1138	126	1193	128	1251	5	1308	10
1027	120	1081	121	1139	123	1194	59	1252	6	1309	7
1028	120	1082	121	1140	123	1195	127	1253	18	1310	8
1029	120	1083	121	1141	126	1196	162	1254	5	1311	8
1030	120	1084	121	1142	123	1197	162	1256	6	1312	8
1031	120	1085	122	1143	119	1198	123	1257	6	1313	57
1032	120	1086	122	1144	117	1199	130	1258	6	1314	17
1033	120	1087	122	1145	126	1200	131	1259	6	1315	9
1034	120	1088	122	1146	123	1201	129	1260	10	1316	9
1035	120	1089	122	1147	139	1202	51	1261	6	1317	12
1036	120	1090	122	1148	117	1203	152	1262	6	1318	9
1037	120	1091	122	1149	59	1204	152	1263	60	1319	9
1038	120	1092	122	1150	127	1205	152	1264	5	1320	9
1039	120	1093	122	1151	110	1206	162	1265	60	1321	9
1040	120	1094	122	1152	110	1207	151	1266	60	1322	12
1041	121	1095	122	1153	150	1208	162	1267	60	1323	9
1042	121	1096	122	1154	108	1209	87	1268	6	1324	20
1043	121	1097	122	1155	108	1210	11	1269	18	1325	12
1044	121	1098	122	1156	108	1211	6	1270	17	1326	19
1045	121	1099	122	1157	108	1212	101	1271	6	1327	11
1046	121	1100	122	1158	108	1213	128	1272	7	1328	12
1047	121	1101	122	1159	110	1214	59	1273	5	1329	19
1048	121	1102	122	1160	117	1215	129	1274	7	1331	11
1049	121	1103	122	1161	108	1216	129	1275	18	1332	11
1050	121	1104	122	1162	109	1218	129	1276	17	1333	11
1051	121	1105	122	1163	110	1219	152	1277	8	1334	11
1052	121	1106	122	1164	107	1221	65	1278	7	1335	11
1053	121	1107	122	1165	107	1223	47	1279	7	1336	11
1054	121	1108	122	1166	107	1224	161	1280	59	1338	11
1055	121	1109	122	1167	107	1225	161	1281	7	1339	12
1056	121	1110	122	1168	110	1226	161	1282	60	1340	12

INDEX TO NUMBERS ON SPECIMENS.—Continued.

No.	Page.	No.	Page.	No.	Page.	No.	Page.	No.	Page.	No.	Page.
1341	12	1405	20	1463	24	1522	20	1580	24	1637	28
1342	12	1406	16	1464	23	1523	22	1581	24	1638	28
1345	12	1407	16	1465	68	1524	22	1582	24	1639	28
1346	12	1408	16	1466	24	1525	22	1583	25	1640	28
1347	12	1409	16	1467	18	1526	22	1584	24	1641	27
1348	12	1410	17	1468	23	1527	21	1586	24	1642	28
1349	12	1411	23	1469	18	1528	20	1587	23	1643	28
1350	12	1412	10	1470	19	1529	145	1588	24	1644	28
1351	12	1413	16	1471	18	1530	21	1589	24	1645	28
1352	12	1414	16	1472	18	1531	22	1590	24	1646	28
1353	8	1415	160	1473	18	1532	22	1591	24	1647	28
1354	11	1416	16	1474	18	1533	22	1592	25	1648	28
1355	12	1417	23	1475	18	1534	22	1593	24	1649	28
1356	12	1418	17	1476	18	1535	22	1594	24	1650	28
1357	12	1419	17	1477	19	1536	22	1595	25	1651	28
1358	12	1420	15	1478	17	1537	12	1596	25	1652	13
1359	12	1421	17	1479	15	1538	22	1597	25	1653	14
1360	12	1422	23	1480	16	1539	21	1598	24	1654	13
1363	11	1423	17	1481	15	1541	21	1599	24	1655	13
1364	12	1424	23	1482	15	1542	21	1600	24	1656	28
1365	12	1425	18	1483	15	1543	21	1601	23	1657	13
1366	75	1426	17	1484	15	1544	21	1602	23	1658	13
1367	11	1427	17	1485	15	1545	21	1603	24	1659	13
1368	15	1428	17	1486	15	1546	21	1604	24	1660	13
1369	12	1429	17	1487	15	1547	21	1605	29	1661	14
1370	13	1430	17	1488	15	1548	21	1606	26	1662	14
1371	11	1431	17	1489	15	1549	21	1607	26	1663	13
1374	10	1432	17	1490	15	1550	23	1608	26	1664	13
1376	10	1433	28	1491	15	1551	21	1609	11	1666	13
1377	10	1434	18	1492	15	1555	21	1611	26	1667	13
1378	10	1436	18	1493	15	1556	21	1612	24	1668	13
1379	10	1437	19	1494	15	1557	21	1613	27	1669	14
1380	10	1439	19	1495	15	1558	25	1614	26	1670	13
1381	10	1440	19	1497	21	1559	25	1615	26	1671	13
1382	10	1442	19	1501	20	1560	25	1616	26	1672	13
1384	10	1443	19	1502	20	1561	21	1617	26	1674	13
1385	10	1444	79	1503	20	1562	25	1618	26	1676	13
1386	11	1445	18	1504	20	1563	25	1619	26	1677	14
1387	10	1446	18	1505	20	1564	25	1620	27	1678	14
1388	145	1448	18	1506	20	1565	25	1621	27	1679	14
1389	10	1449	18	1507	20	1566	25	1622	27	1680	14
1390	10	1450	18	1508	20	1567	25	1623	24	1681	14
1392	16	1451	18	1509	20	1568	140	1624	27	1682	14
1393	26	1452	18	1510	20	1569	25	1625	27	1683	14
1394	7	1453	20	1511	20	1570	24	1626	27	1684	14
1395	16	1454	19	1512	19	1571	24	1627	27	1685	14
1396	16	1455	19	1513	26	1572	25	1629	27	1686	14
1398	16	1456	19	1514	26	1573	25	1630	27	1687	14
1399	16	1457	20	1515	26	1574	24	1631	27	1688	14
1400	16	1458	19	1516	20	1575	24	1632	7	1689	29
1401	16	1459	23	1517	17	1576	154	1633	18	1690	14
1402	16	1460	23	1519	20	1577	24	1634	27	1691	15
1403	16	1461	23	1520	20	1578	24	1635	27	1692	14
1404	16	1462	28	1521	20	1579	26	1636	28	1693	14

INDEX TO NUMBERS ON SPECIMENS.—Continued.

No.	Page.	No.	Page.	No.	Page.	No.	Page.	No.	Page.	No.	Page.
1694	14	1751	138	1809	153	1866	155	1925	79	1985	79
1695	23	1752	137	1810	153	1867	156	1926	79	1986	81
1696	14	1753	137	1811	153	1868	157	1927	79	1987	81
1697	14	1754	137	1812	153	1869	60	1928	80	1988	81
1698	14	1755	137	1813	153	1870	157	1929	80	1989	81
1699	14	1756	138	1814	153	1871	159	1930	61	1990	72
1701	29	1757	137	1815	153	1872	155	1931	69	1991	82
1702	29	1758	53	1816	154	1873	155	1932	80	1992	82
1703	29	1759	138	1817	154	1874	157	1933	79	1993	73
1704	29	1760	138	1818	154	1875	158	1935	136	1994	73
1705	16	1762	137	1819	154	1876	158	1937	79	1995	73
1706	29	1764	138	1820	154	1877	158	1938	79	1996	73
1707	16	1765	138	1822	154	1878	157	1939	80	1997	73
1708	14	1766	138	1823	154	1879	157	1941	80	1998	74
1709	29	1767	136	1824	154	1880	157	1943	81	1999	73
1710	29	1768	136	1825	154	1881	157	1944	68	2000	82
1711	29	1769	27	1826	154	1882	157	1945	67	2001	82
1712	29	1770	136	1827	154	1883	157	1946	72	2002	83
1713	29	1771	137	1828	154	1884	157	1947	68	2003	72
1714	28	1772	136	1829	154	1885	57	1948	69	2004	82
1715	28	1774	137	1830	154	1886	157	1949	80	2005	73
1716	27	1775	137	1831	156	1887	157	1950	80	2006	73
1717	26	1776	136	1832	155	1888	159	1951	71	2007	72
1718	27	1777	136	1833	154	1889	158	1952	72	2008	74
1719	27	1778	136	1834	156	1892	160	1953	71	2009	73
1720	26	1779	136	1835	156	1893	159	1954	71	2010	72
1721	29	1780	60	1836	156	1894	159	1955	71	2011	82
1722	29	1781	136	1837	25	1895	160	1956	68	2012	76
1723	16	1782	136	1838	155	1896	160	1957	79	2013	82
1724	13	1783	136	1839	156	1897	155	1958	68	2014	73
1725	11	1784	137	1840	156	1898	160	1959	9	2015	82
1727	25	1785	153	1841	156	1899	160	1960	24	2016	82
1728	25	1786	153	1842	155	1900	155	1961	80	2017	72
1729	25	1787	153	1843	156	1901	20	1962	80	2019	73
1730	19	1788	153	1844	156	1903	29	1963	79	2020	72
1731	68	1789	153	1845	157	1904	80	1964	79	2021	82
1732	11	1790	153	1846	8	1905	80	1965	80	2022	74
1733	14	1791	153	1847	157	1906	68	1966	69	2023	82
1734	22	1792	153	1848	156	1907	80	1967	79	2024	72
1735	20	1793	153	1849	156	1908	68	1968	69	2025	73
1736	10	1794	153	1850	156	1910	80	1970	79	2026	73
1737	10	1795	153	1851	156	1911	68	1971	81	2027	73
1739	10	1796	153	1852	28	1912	80	1972	80	2028	73
1740	137	1797	153	1854	157	1913	136	1973	81	2029	73
1741	137	1798	153	1856	156	1914	71	1974	68	2030	74
1742	137	1799	153	1857	157	1915	81	1975	81	2031	74
1743	137	1800	153	1858	156	1916	81	1977	81	2032	74
1744	137	1801	153	1859	157	1918	82	1978	80	2033	74
1745	138	1802	153	1860	156	1919	82	1979	68	2034	78
1746	137	1803	153	1861	156	1920	81	1980	79	2035	78
1747	138	1804	153	1862	155	1921	70	1981	79	2036	78
1748	137	1806	153	1863	155	1922	81	1982	79	2039	78
1749	137	1807	153	1864	155	1923	81	1983	79	2040	78
1750	16	1808	153	1865	158	1924	81	1984	79	2041	78

INDEX TO NUMBERS ON SPECIMENS.—Continued.

No.	Page.	No.	Page.	No.	Page.	No.	Page.	No.	Page.	No.	Page.
2042	78	2098	83	2444	131	2502	149	2579	160	2634	144
2043	78	2099	76	2445	132	2503	148	2580	107	2635	144
2044	78	2100	68	2446	132	2504	107	2581	146	2636	144
2045	78	2101	68	2448	147	2505	107	2582	71	2637	144
2046	78	2102	68	2449	134	2512	167	2583	51	2638	144
2047	75	2103	70	2450	61	2513	31	2584	127	2639	144
2048	5	2104	22	2451	61	2514	33	2585	129	2640	144
2049	83	2105	70	2452	133	2516	167	2586	8	2641	144
2050	75	2106	17	2453	133	2519	164	2587	142	2723	80
2051	75	2107	68	2454	141	2520	30	2588	142	2813	18
2052	75	2108	136	2455	133	2521	31	2589	142	3326	16
2053	12	2109	68	2456	133	2523	165	2590	142	3411	89
2054	75	2110	69	2457	133	2524	164	2591	142	3412	90
2055	83	2111	69	2458	133	2526	31	2592	142	3413	90
2057	82	2112	71	2459	133	2527	30	2593	142	3414	87
2058	75	2113	136	2460	132	2528	31	2594	142	3415	87
2059	76	2114	80	2461	37	2529	168	2596	142	3416	90
2060	83	2115	82	2462	135	2531	32	2597	143	3417	90
2061	75	2116	82	2463	133	2532	32	2598	143	3418	90
2062	75	2117	79	2464	133	2534	167	2599	143	3419	90
2063	76	2118	79	2465	133	2536	30	2600	143	3420	89
2064	76	2119	79	2466	133	2538	150	2601	143	3421	5
2065	11	2120	79	2467	132	2539	151	2602	143	3422	91
2066	76	2121	79	2468	133	2540	141	2603	143	3423	90
2067	75	2122	79	2469	61	2541	32	2604	143	3424	90
2068	75	2123	78	2470	38	2543	168	2605	143	3425	92
2070	75	2124	72	2471	38	2544	32	2606	143	3426	90
2071	76	2125	72	2472	38	2547	164	2607	143	3427	90
2072	76	2126	72	2473	38	2548	31	2608	143	3428	91
2073	76	2127	72	2474	37	2549	30	2609	143	3429	90
2074	75	2128	73	2475	133	2551	135	2610	144	3430	90
2075	76	2129	74	2476	134	2553	135	2611	144	3431	90
2076	74	2130	75	2478	33	2554	33	2612	144	3432	90
2077	75	2131	75	2479	133	2555	167	2613	144	3433	90
2078	75	2132	75	2480	54	2556	147	2614	144	3434	90
2079	77	2133	75	2481	94	2557	142	2615	144	3435	91
2080	78	2134	75	2482	147	2558	147	2616	144	3436	91
2081	78	2135	76	2483	135	2559	147	2617	144	3437	90
2082	77	2136	78	2485	138	2560	30	2618	144	3438	91
2083	77	2137	77	2486	135	2561	139	2619	144	3439	91
2084	78	2138	77	2487	141	2562	139	2620	144	3440	91
2085	76	2139	77	2488	147	2563	167	2621	144	3441	91
2086	76	2140	77	2489	147	2564	167	2622	144	3442	6
2087	78	2141	136	2490	147	2566	139	2623	144	3443	6
2088	78	2142	77	2491	146	2567	162	2624	144	3444	165
2089	76	2143	77	2492	146	2568	135	2625	144	3445	95
2090	77	2144	77	2493	146	2570	109	2626	144	3446	95
2091	14	2145	77	2495	146	2571	109	2627	144	3447	95
2092	76	2156	75	2496	146	2572	33	2628	144	3448	95
2093	82	2391	17	2497	146	2574	145	2629	144	3449	95
2094	136	2440	142	2498	146	2575	148	2630	144	3450	95
2095	83	2441	142	2499	146	2576	168	2631	144	3451	95
2096	78	2442	142	2500	146	2577	94	2632	144	3452	95
2097	83	2443	105	2501	146	2578	107	2633	144	3453	100

INDEX TO NUMBERS ON SPECIMENS.—Continued.

No.	Page.	No.	Page.	No.	Page.	No.	Page.	No.	Page.	No.	Page.
3454	95	3512	89	3570	88	3625	57	3680	87	3734	145
3455	99	3513	88	3571	88	3626	57	3681	136	3735	145
3456	99	3514	173	3572	87	3627	57	3682	136	3736	145
3457	161	3515	53	3573	87	3628	57	3683	147	3737	145
3458	99	3516	53	3574	87	3629	140	3684	136	3738	145
3459	95	3517	53	3575	88	3630	140	3685	69	3740	8
3461	98	3518	136	3576	88	3631	140	3686	137	3741	151
3462	98	3519	53	3577	88	3632	140	3687	137	3742	151
3464	99	3520	53	3578	88	3633	140	3688	136	3743	151
3465	97	3521	53	3579	88	3634	140	3689	135	3744	151
3466	93	3523	54	3580	89	3635	140	3690	137	3745	110
3467	94	3524	53	3581	87	3636	140	3691	158	3746	111
3468	98	3525	52	3582	91	3637	140	3692	158	3747	76
3469	99	3526	47	3583	87	3638	140	3693	160	3748	57
3470	98	3527	53	3584	89	3639	100	3694	160	3749	74
3471	98	3528	53	3585	88	3640	68	3695	61	3750	153
3472	98	3529	52	3586	57	3641	140	3696	159	3751	153
3473	98	3530	53	3587	87	3642	140	3697	159	3752	153
3474	95	3531	126	3588	90	3643	140	3698	158	3753	153
3475	95	3532	162	3589	92	3644	140	3699	158	3754	153
3476	98	3533	126	3590	88	3645	140	3700	155	3755	153
3477	98	3534	126	3592	90	3646	62	3701	158	3756	153
3478	7	3535	127	3593	87	3647	74	3702	153	3758	154
3479	99	3536	127	3594	90	3648	79	3703	154	3759	159
3480	98	3537	127	3595	87	3649	88	3704	158	3760	154
3481	100	3538	127	3596	88	3650	90	3705	151	3761	61
3482	98	3539	127	3597	88	3651	68	3706	159	3762	155
3483	101	3540	127	3598	140	3652	69	3707	154	3763	156
3484	9	3542	49	3599	139	3653	74	3708	154	3764	156
3485	101	3543	13	3600	53	3654	126	3709	160	3765	156
3487	102	3544	59	3601	123	3655	69	3710	33	3766	156
3488	101	3546	15	3602	52	3656	77	3711	31	3767	156
3489	102	3547	97	3603	53	3657	63	3712	71	3768	156
3490	101	3548	91	3604	53	3658	89	3713	33	3769	158
3491	101	3549	91	3605	52	3659	81	3714	154	3770	158
3492	101	3550	92	3606	52	3660	78	3715	154	3772	158
3493	101	3551	92	3607	137	3661	61	3716	154	3773	158
3495	101	3552	92	3608	52	3662	72	3717	160	3774	159
3496	102	3553	91	3609	53	3663	72	3718	159	3775	159
3497	101	3554	91	3610	53	3664	72	3719	160	3776	158
3498	101	3555	89	3611	162	3665	76	3720	160	3777	159
3499	160	3556	91	3612	54	3666	66	3721	158	3778	159
3500	94	3557	88	3613	53	3667	72	3722	157	3779	159
3501	94	3558	88	3614	52	3668	66	3723	157	3780	159
3502	94	3559	90	3615	53	3669	76	3724	157	3781	158
3503	94	3560	89	3616	52	3670	92	3725	160	3782	158
3504	94	3561	89	3617	52	3671	89	3726	159	3783	160
3505	94	3562	89	3618	53	3672	138	3727	157	4514	8
3506	140	3564	89	3619	103	3673	91	3728	157	4515	11
3507	94	3565	89	3620	50	3674	61	3729	144	4516	10
3508	94	3566	53	3621	57	3675	88	3730	144	4517	10
3509	99	3567	89	3622	57	3676	86	3731	144	4518	10
3510	34	3568	89	3623	57	3677	87	3732	144	4519	10
3511	164	3569	88	3624	57	3678	90	3733	145	4520	11

INDEX TO NUMBERS ON SPECIMENS.—*Continued.*

No.	Page.	No.	Page.	No.	Page.	No.	Page.	No.	Page.	No.	Page.
4521	16	4580	15	4636	90	4691	131	4751	171	4823	38
4522	16	4581	19	4637	91	4692	169	4752	171	4824	159
4524	16	4582	32	4638	91	4694	169	4753	171	4825	60
4525	16	4583	15	4639	76	4695	169	4755	61	4826	31
4526	22	4584	12	4640	78	4696	169	4756	171	4827	15
4527	17	4585	26	4641	80	4697	58	4757	168	4828	31
4528	27	4586	21	4642	82	4699	169	4759	173	4829	27
4531	8	4587	20	4643	75	4700	58	4760	171	4830	26
4532	19	4588	20	4644	58	4701	169	4761	60	4831	26
4533	19	4589	21	4645	145	4702	171	4762	173	4832	19
4535	17	4590	32	4647	149	4703	169	4763	173	4833	19
4536	26	4591	25	4648	147	4704	169	4764	140	4834	31
4537	19	4592	21	4649	148	4705	105	4765	171	4835	27
4538	33	4593	22	4650	148	4706	171	4766	170	4836	28
4539	12	4594	20	4651	147	4707	168	4767	60	4840	23
4540	12	4595	21	4652	148	4708	168	4768	171	4841	23
4541	12	4596	22	4653	30	4709	170	4769	171	4842	158
4542	12	4598	32	4654	148	4711	171	4770	171	4843	33
4543	30	4599	21	4655	148	4712	61	4771	131	4844	159
4544	30	4600	21	4656	146	4713	168	4772	171	4845	15
4545	12	4601	21	4657	147	4714	12	4773	173	4846	154
4546	10	4602	24	4658	148	4715	170	4774	171	4847	16
4547	11	4603	24	4659	148	4716	168	4775	50	4848	168
4548	30	4604	33	4660	148	4718	59	4776	171	4849	34
4549	10	4605	81	4661	31	4719	170	4777	172	4850	91
4550	31	4606	27	4662	164	4720	170	4778	172	4851	26
4551	31	4607	33	4663	167	4721	170	4779	172	4853	18
4552	31	4608	25	4664	58	4722	170	4780	172	4854	139
4553	31	4609	33	4665	162	4723	170	4781	172	4855	30
4554	17	4610	27	4666	126	4724	170	4782	172	4856	33
4555	19	4611	30	4667	126	4725	170	4783	172	4857	33
4556	18	4612	33	4668	59	4726	171	4784	173	4858	82
4557	19	4613	33	4669	168	4727	171	4785	172	4859	60
4558	19	4614	33	4670	76	4728	76	4786	172	4860	31
4559	15	4615	27	4671	168	4729	31	4787	171	4861	16
4560	19	4616	27	4672	168	4730	171	4790	172	4862	141
4561	18	4617	30	4673	168	4731	170	4791	172	4863	117
4562	26	4618	30	4674	67	4733	167	4792	60	4864	117
4563	26	4619	13	4675	169	4734	169	4793	169	4865	141
4564	22	4621	9	4676	169	4735	170	4794	172	4867	120
4565	20	4622	14	4677	169	4736	170	4796	169	4868	117
4566	22	4623	30	4678	169	4737	170	4797	171	4869	117
4567	22	4624	135	4679	169	4738	171	4798	172	4870	117
4568	25	4625	14	4680	169	4740	170	4802	167	4871	118
4569	25	4626	154	4681	170	4741	170	4804	167	4872	118
4570	24	4627	139	4682	170	4742	170	4809	171	4873	120
4571	23	4628	47	4683	59	4743	170	4810	170	4875	118
4572	23	4629	89	4684	170	4744	170	4811	167	4876	117
4573	18	4630	91	4685	169	4745	170	4812	167	4877	118
4574	31	4631	87	4686	106	4746	170	4814	167	4878	118
4576	19	4632	89	4687	61	4747	171	4819	145	4879	118
4577	31	4633	88	4688	61	4748	171	4820	145	4880	118
4578	19	4634	87	4689	170	4749	171	4821	87	4881	118
4579	32	4635	89	4690	169	4750	171	4822	154	4882	118

INDEX TO NUMBERS ON SPECIMENS.—Continued.

No.	Page.	No.	Page.	No.	Page.	No.	Page.	No.	Page.	No.	Page.
4884	172	4940	68	5053	61	5108	100	5166	124	5220	63
4885	172	4941	137	5054	128	5109	99	5167	164	5221	111
4886	172	4942	27	5055	60	5110	102	5168	124	5222	111
4887	172	4943	26	5056	128	5111	102	5169	164	5223	109
4888	172	4944	15	5057	106	5113	94	5170	126	5224	109
4889	172	4945	17	5058	106	5114	6	5171	164	5225	10
4890	172	4947	34	5059	163	5115	7	5172	123	5226	109
4892	58	4948	123	5060	127	5117	152	5173	124	5227	14
4893	100	4949	123	5061	112	5118	162	5174	164	5228	87
4894	100	4950	123	5062	86	5119	107	5175	124	5229	141
4895	100	4951	124	5063	86	5121	134	5176	164	5230	161
4896	100	4952	125	5064	91	5122	67	5177	123	5231	112
4897	99	4953	125	5065	108	5123	132	5178	164	5232	70
4898	99	4954	125	5066	108	5125	68	5179	123	5234	56
4899	98	4955	125	5067	110	5126	123	5180	164	5235	111
4900	162	4956	124	5068	124	5127	107	5181	109	5236	112
4901	162	4957	124	5069	123	5128	127	5182	63	5237	112
4902	99	4958	126	5070	124	5129	61	5183	132	5238	113
4903	96	4959	127	5071	123	5130	110	5184	10	5243	126
4904	100	4960	5	5072	123	5131	127	5185	128	5245	126
4905	100	4961	118	5073	123	5132	50	5186	5	5246	110
4906	94	4962	118	5074	61	5133	50	5187	109	5251	141
4907	94	4963	120	5075	57	5134	51	5188	127	5252	109
4908	95	4964	105	5076	108	5135	152	5189	164	5253	83
4909	9	4965	105	5077	108	5136	161	5190	164	5254	87
4910	9	4966	140	5078	108	5137	161	5191	127	5255	32
4911	49	4967	140	5079	109	5138	88	5192	126	5257	34
4912	99	4968	140	5080	109	5139	29	5193	60	5258	105
4913	94	4969	138	5081	108	5140	128	5194	127	5261	86
4914	95	4970	14	5082	109	5141	38	5195	61	5262	146
4915	165	4971	154	5083	88	5142	126	5196	71	5263	147
4916	60	4974	168	5084	60	5143	163	5197	70	5264	147
4917	170	5000	105	5086	169	5144	147	5198	70	5265	147
4918	168	5031	150	5087	96	5145	19	5199	70	5266	147
4919	168	5032	148	5088	96	5146	123	5200	71	5267	147
4920	108	5033	148	5089	96	5147	163	5201	70	5268	147
4921	54	5034	31	5090	97	5148	126	5202	70	5269	147
4922	110	5035	120	5091	96	5149	163	5203	71	5270	147
4923	111	5036	120	5092	96	5150	126	5204	143	5271	147
4924	111	5037	120	5093	96	5151	163	5205	143	5272	147
4925	32	5038	62	5094	96	5152	126	5206	173	5273	61
4926	169	5039	61	5095	96	5153	163	5207	173	5274	16
4927	145	5040	13	5096	96	5154	124	5208	173	5275	162
4928	147	5041	95	5097	97	5155	163	5209	173	5276	139
4929	168	5042	163	5098	97	5156	125	5210	173	5277	15
4930	112	5044	110	5099	97	5157	163	5211	173	5278	92
4931	112	5045	102	5100	97	5158	125	5212	173	5279	86
4932	112	5046	172	5101	97	5159	164	5213	173	5280	164
4933	110	5047	58	5102	96	5160	124	5214	174	5281	34
4934	109	5048	71	5103	97	5161	164	5215	174	5282	72
4935	109	5049	163	5104	96	5162	124	5216	174	5283	74
4936	23	5050	53	5105	108	5163	164	5217	167	5284	17
4937	123	5051	60	5106	127	5164	125	5218	167	5285	15
4939	58	5052	128	5107	8	5165	164	5219	167	5286	136

INDEX TO NUMBERS ON SPECIMENS.—Continued.

No.	Page.	No.	Page.	No.	Page.	No.	Page.	No.	Page.	No.	Page.
5289	48	5356	41	5426	86	5492	25	5553	34	5611	6
5290	48	5357	42	5432	141	5493	27	5554	18	5612	71
5291	48	5358	155	5433	77	5494	11	5555	145	5613	71
5292	48	5359	27	5434	77	5495	10	5556	138	5614	8
5293	48	5360	168	5435	77	5496	16	5557	87	5615	70
5294	48	5361	42	5436	97	5497	16	5558	73	5616	69
5295	48	5362	37	5437	103	5498	16	5559	71	5617	69
5296	48	5363	148	5438	97	5500	18	5560	68	5618	7
5297	48	5365	109	5439	97	5501	17	5561	73	5619	69
5298	48	5366	112	5441	97	5502	68	5562	47	5620	69
5299	48	5367	112	5442	141	5503	22	5563	74	5621	8
5300	48	5368	112	5443	77	5504	22	5564	142	5622	69
5301	48	5369	147	5444	22	5505	23	5565	142	5623	69
5302	48	5370	146	5445	100	5506	23	5566	169	5624	80
5303	48	5371	55	5447	91	5507	69	5567	172	5625	69
5304	48	5373	49	5448	100	5510	17	5569	77	5626	71
5305	48	5374	49	5449	172	5511	19	5570	77	5627	69
5306	48	5375	49	5450	49	5512	15	5571	77	5628	69
5307	48	5376	49	5451	100	5513	24	5572	77	5630	69
5308	169	5377	23	5452	155	5514	20	5573	109	5631	69
5309	96	5378	49	5453	53	5515	20	5574	111	5632	69
5310	96	5379	60	5454	53	5516	19	5575	169	5633	74
5311	99	5380	113	5455	55	5517	19	5576	141	5634	74
5312	99	5381	113	5456	56	5518	26	5577	100	5635	168
5313	96	5382	29	5457	68	5519	21	5578	60	5637	41
5314	66	5383	168	5458	7	5520	21	5580	69	5638	10
5315	90	5384	168	5459	38	5521	26	5581	74	5639	52
5316	146	5385	168	5460	44	5522	52	5582	91	5640	52
5325	131	5386	72	5461	44	5523	32	5583	24	5642	8
5326	73	5387	134	5462	44	5524	30	5584	38	5643	52
5328	172	5388	110	5463	44	5525	31	5585	70	5644	52
5329	60	5389	63	5465	31	5526	33	5586	9	5645	11
5330	60	5390	5	5466	31	5528	30	5587	70	5646	32
5331	136	5391	71	5467	6	5529	32	5588	70	5647	21
5333	7	5392	6	5468	148	5530	30	5589	74	5648	21
5335	73	5393	20	5469	135	5531	31	5590	60	5649	22
5336	85	5394	123	5471	17	5532	33	5591	70	5650	22
5337	122	5395	138	5472	8	5533	146	5592	52	5651	21
5338	31	5396	71	5473	8	5534	32	5594	81	5652	21
5339	18	5397	54	5474	100	5536	30	5595	83	5653	22
5340	13	5398	91	5475	101	5537	28	5596	74	5654	22
5341	138	5399	5	5476	101	5538	85	5597	74	5655	22
5342	138	5412	160	5477	102	5539	89	5598	74	5656	21
5343	57	5413	61	5478	102	5540	149	5600	74	5657	21
5344	141	5414	49	5479	101	5541	29	5601	70	5658	8
5345	42	5415	49	5481	101	5542	29	5602	58	5659	86
5346	44	5416	161	5482	96	5544	13	5603	70	5660	87
5347	46	5417	171	5483	97	5545	93	5604	70	5661	62
5348	31	5418	86	5484	100	5546	29	5605	6	5662	154
5351	6	5420	103	5486	99	5548	99	5606	69	5663	154
5352	41	5421	103	5488	102	5549	24	5607	70	5664	159
5353	41	5422	103	5489	33	5550	173	5608	7	5665	159
5354	41	5423	103	5490	9	5551	150	5609	70	5666	173
5355	41	5424	103	5491	41	5552	54	5610	70	5667	22

INDEX TO NUMBERS ON SPECIMENS.—*Continued.*

No.	Page.	No.	Page.	No.	Page.	No.	Page.	No.	Page.	No.	Page.
5668	22	5734	92	5821	42	5879	150	5933	150	5992	27
5669	13	5735	71	5822	42	5880	149	5934	150	5993	6
5670	11	5736	146	5823	42	5881	149	5935	149	5994	50
5671	13	5737	146	5824	42	5882	149	5936	138	5995	48
5672	172	5738	146	5825	42	5883	150	5937	139	5996	140
5675	10	5739	146	5826	42	5884	150	5938	87	5997	48
5677	102	5740	146	5827	42	5885	150	5940	59	5998	136
5678	147	5741	146	5828	42	5886	149	5941	59	5999	141
5679	10	5742	146	5829	42	5887	149	5942	59	6500	14
5680	145	5743	146	5830	42	5888	150	5943	59	6501	29
5681	32	5744	146	5831	42	5889	149	5944	59	6502	6
5682	32	5745	146	5832	42	5890	150	5945	59	6503	6
5683	13	5747	46	5833	43	5891	149	5946	59	6505	7
5685	22	5748	46	5834	43	5892	150	5947	59	6506	7
5686	22	5749	37	5835	43	5893	149	5948	58	6507	8
5689	21	5750	11	5836	43	5894	149	5949	59	6508	13
5690	21	5758	67	5837	43	5895	149	5950	59	6509	20
5692	21	5759	76	5838	43	5896	149	5951	59	6510	20
5693	32	5763	46	5839	43	5897	149	5952	59	6511	14
5695	20	5764	46	5840	43	5898	149	5953	58	6512	8
5697	20	5765	47	5841	43	5899	150	5954	58	6513	8
5698	20	5766	47	5842	43	5900	149	5955	58	6514	16
5699	20	5767	47	5843	43	5901	149	5956	91	6515	16
5700	20	5768	47	5844	43	5902	149	5957	58	6516	16
5701	20	5769	47	5845	43	5903	150	5958	58	6517	7
5702	20	5770	47	5846	43	5904	149	5960	54	6518	9
5705	10	5771	47	5847	43	5905	149	5961	55	6519	32
5706	41	5772	47	5848	43	5906	149	5962	55	6520	28
5707	41	5773	47	5849	43	5907	150	5963	55	6521	23
5708	41	5774	47	5850	43	5908	149	5964	55	6522	18
5709	41	5775	71	5851	43	5909	150	5965	58	6523	9
5710	86	5776	89	5852	43	5910	149	5966	155	6525	152
5711	47	5780	74	5853	44	5911	150	5967	155	6526	59
5712	72	5782	87	5854	44	5912	149	5968	155	6527	7
5713	21	5794	82	5855	44	5913	149	5969	155	6528	58
5714	76	5802	54	5856	44	5914	149	5970	155	6529	72
5715	145	5803	54	5857	44	5915	149	5971	155	6530	29
5716	108	5804	53	5858	44	5916	150	5972	155	6532	149
5717	81	5805	71	5860	45	5917	149	5973	145	6533	150
5718	70	5806	64	5861	47	5918	149	5974	145	6535	49
5719	145	5807	68	5862	47	5919	149	5978	12	6536	49
5720	172	5808	68	5863	47	5920	149	5979	12	6537	49
5721	147	5809	42	5864	47	5921	149	5980	58	6538	49
5722	74	5810	42	5865	47	5922	150	5981	32	6539	49
5723	5	5811	126	5866	47	5923	149	5982	29	6540	49
5724	98	5812	42	5870	150	5924	149	5983	28	6541	49
5725	98	5813	42	5871	150	5925	149	5984	11	6542	49
5726	98	5814	42	5872	149	5926	149	5985	15	6543	49
5727	98	5815	42	5873	150	5927	150	5986	18	6544	24
5728	66	5816	42	5874	150	5928	149	5987	27	6545	25
5729	75	5817	42	5875	149	5929	150	5988	11	6546	32
5730	69	5818	42	5876	149	5930	150	5989	27	6547	32
5731	47	5819	42	5877	149	5931	150	5990	6	6548	32
5732	61	5820	42	5878	150	5932	150	5991	7	6549	33

INDEX

TO

MINING DISTRICTS, AREAS, CAMPS, LOCATIONS AND CLAIMS,

ALSO TO

MINES, QUARRIES AND PITS.

ABBREVIATIONS.

Alta. District of Alberta.	N.B. Province of New Brunswick.
Assa. District of Assiniboia.	N. North.
Atha. District of Athabasca.	N.W.T. North-west Territory.
B.C. Province of British Columbia.	N.S. Nova Scotia.
Ck. Creek.	Ont. Province of Ontario.
co. County.	Pt. Point.
dt. District.	P.E.I. Prince Edward Island.
E. East.	Que. Province of Quebec.
Hbr. Harbour.	R. River.
Isd. Island.	S. South.
L. Lake.	Syn. Synonym of.
loc. Location.	Sask. District of Saskatchewan.
Man. Province of Manitoba.	tp. Township.
Mt. Mount.	V. I. Vancouver Island.
Mtn. Mountain.	vic. Vicinity of.
Mtns. Mountains.	W. West.
nr. Near.	

A.

	Page.
Acadia claim, McDame Ck., Cassiar, B.C. Silver ore from.....	47
— Colliery, Pictou co., N.S. Coal from.....	104
— Mines, Colchester co., N.S. Iron ore from.....	73, 75, 76
— , Pictou co., N.S. Coal from.....	104
Acton mine, tp. Acton, Bagot co., Que. Copper ore from.....	84, 163
Adams mine, tp. N. Burgess, Lanark co., Ont. Apatite from.....	154
Albert Mines, Albert co., N.B. Bituminous shale from.....	164
Albion mine, Montagu, Halifax co., N.S. Gold quartz from.....	37
— Mines, Pictou co., N.S. Coal from.....	103
Alpha claim, Mt. Field, B.C. Silver ore from.....	42
Apex claim, Cottonwood-Smith Ck., B.C. Silver ore from.....	43
Arctic Circle claim, Boulder Ck., Omineca, B.C. Silver ore from.....	47
Ardmore claim, Nicola Valley, B.C. Silver ore from.....	47
Ascot mine, tp. Ascot, Sherbrooke co., Que. Copper ore from.....	85

INDEX TO MINING DISTRICTS, ETC.—Continued.

B.

	Page.
Badger mine, tp. Gillies, Ont. Silver ore from.....	49
Baker's mine, Oldham, Halifax co., N.S. Gold quartz from.....	37
Baldwin mine, tp. Hull, Ottawa co., Que. Iron ore from.....	68
Balfour claim, Illecillewaet R., B.C. Silver ore from.....	44
Barber's mine, tp. Hull, Ottawa co., Que. Apatite from.....	151, 154
Baxter's quarry, Cayuga, Haldimand co., Ont. Dolomite from.....	110
Baynes Sound mine, Comox, V. I., B.C. Coal from.....	101
Bay View quarry, Mary's Pt., Albert co., N.B. Sandstone from.....	111
Beaver claim, W. Kootanie dt., B.C. Silver ore from.....	45
— mine, tp. O'Connor, Ont. Silver ore from.....	49, 52
Becker mine, tp. Tudor, Hastings co., Ont. Iron ore from.....	70
Beck mine, tp. McGregor, Ont. Silver ore from.....	48
Bedard's quarry, Cleveland, Richmond co., Que. Slate from.....	107
Bee claim, Cayoosh Ck., B.C. Gold quartz from.....	47
Begley mine, Batchewahung Bay, L. Superior, Ont. Copper ore from..	89
Beliveau mine, Beliveau, Westmoreland co., N.B. Petroleum from.....	105
Belvidere mine, tp. Ascot, Sherbrooke co., Que. Iron ore from.....	68
Bentliffe mine, tp. Marmora, Hastings co., Ont. Iron ore from.....	74
Bernier quarry, St. John's, St. John's co., Que. Limestone from.....	108
Best claim, W. Kootanie dt., B.C. Silver ore from.....	46
Best's mine, St. John, St. John co., N.B. Graphite from.....	134, 136
Big Bend claim, Columbia R., B.C. Gold quartz from.....	46
— — mining region, B.C. Silver ores from.....	46
Big Slide mine, Fraser R., B.C. Gold quartz from.....	47
Bishop's quarry, tp. Nepean, Carleton co., Ont. Sandstone from.....	111
Bissonette's mine, tp. Upton, Drummond co., Que. Copper ore from....	85
Black Chief claim, Kootanie L., B.C. Silver ore from.....	43
— Horse claim, Deception Ck., B.C. Silver ore from.....	42
— River mine, St. Flavien, Lotbinière co., Que. Copper ore from....	85, 90
Blanchard's area, Pictou co., N.S. Iron ore from.....	72
Block House mine, Cape Breton co., N.S. Coal from.....	104
Blue Bell claim, Kootanie L., B.C. Silver ore from.....	44
— Bird claim, W. Kootanie dt., B.C. Silver ore from.....	46
— quarries, Wentworth, N.S. Gypsum from.....	130
Bonanza claim, Cayoosh Ck., B.C. Gold quartz from.....	5, 47
— mine, L. Wahnapiatae, Ont. Nickel ore from.....	58
— pit, tp. Portland, Ottawa co., Que. Apatite from.....	151
Boston Asbestos Packing Co.'s mine, Megantic co., Que. Asbestos from.....	138, 140
Bow River coal mine, Bow R., Alta. Coal from.....	100
Bristol mine, tp. Bristol, Pontiac co., Que. Iron ore from.....	68
British Empire claim, Nicola Valley, B.C. Silver ore from.....	47
Bruce Mines, L. Huron, Ont. Jasper conglomerate from.....	120, 163
— —, L. Huron, Ont. Copper ore from.....	7, 84, 86, 89, 91
Brunet's quarry, St. Armand, Missisquoi co., Que. Limestone from.....	108
Burgess' quarry, Newport, N.S. Gypsum from.....	130
Bygrove mine, S. Sherbrooke, Lanark co., Ont. Iron ore from.....	63

INDEX TO MINING DISTRICTS, ETC.—*Continued.*

C.

	Page.
Cahill's mine, Rawdon, Montcalm co., Que. Gold rock from.....	39
Calabogie mine, tp. Bagot, Renfrew co., Ont. Iron ore from.....	69
Caldwell mine, tp. Lavant, Lanark co., Ont. Iron ore from.....	69
Caledonia Gold field, Queen's co., N.S. Gold quartz from.....	38
— mine, Cape Breton co., N.S. Coal from.....	104
Cameron's mine, tp. Madoc, Hastings co., Ont. Iron ore from.....	70
— —, tp. Lochaber, Ottawa co., Que. Apatite from.....	150
Canada Brown Stone quarry, Peel co., Ont. Sandstone from.....	112
Canmore mine, nr. Canmore Station, C. P. R., Alta. Semi-anthracite from.....	102
Capel mine, tp. Ascot, Sherbrooke co., Que. Copper ore from.....	85, 90
Cariboo and Northern Interior of B.C. Silver ore from.....	47
— claim, Illecillewaet dt., B.C. Silver ore from.....	44
Carleton claim, Mt. Stephen, B.C. Silver ore from.....	41
Carnie's mine, Carleton co., N.B. Iron ore from.....	73
Cascade mine, Garden R., dt. Algoma, Ont. Lead ore from.....	51
— —, Cascade R., Rocky Mtns., Alta. Semi-anthracite from....	102
Central Rawdon gold mine, Hants co., N.S. Gold quartz from.....	37
Centre quarry, Grandique, N.S. Gypsum from.....	129
Chaffey mine, tp. S. Crosby, Leeds co., Ont. Iron ore from.....	63, 79
Chambers' quarry, Brooklyn, N.S. Gypsum from.....	130
Christie's Lake mine, tp. S. Sherbrooke, Lanark co., Ont. Iron ore from.	63
Churchill's mine, Hants co., N.S. Manganese ore from.....	12, 61, 62
Clark's mine, tp. Ascot, Sherbrooke co., Que. Iron ore from.....	68
Clifton quarries, Gloucester co., N.B. Sandstone from.....	160
do quarry, Windsor, N.S. Gypsum from.....	129, 131
Coe Hill mine, tp. Wollaston, Hastings co., Ont. Iron ore from.....	70
Colonial copper mine, Westmoreland co., N.B. Copper ore from.....	87
Copper Bonanza claim, Otter-tail Ck., B.C. Silver from.....	41
Copper Cliff mine, tp. McKim, Ont. Copper ore from.....	86, 91
— —, tp. McKim, Ont. Nickel ore from.....	54, 55, 58
Cornucopia claim, Mt. Stephen, B.C. Silver ore from.....	41, 54
Cottonwood mine, Cottonwood, Smith Ck., B.C. Silver ore from.....	42
Cowan mine, tp. Dalhousie, Lanark co., Ont. Iron ore from.....	65, 73
Cowan's mine, tp. N. Burgess, Lanark co., Ont. Apatite from.....	154
Coxheath copper mine, Cape Breton co., N.S. Copper ore from.....	85, 89
Cragg's gold mine, tp. Tudor, Hastings co., Ont. Gold quartz from....	38
Crane Iron Co's mine, Guysborough co., N.S. Iron ore from.....	72
Credit Forks stone quarry, Peel co., Ont. Sandstone from.....	112
Crescent claim, Spilimicheue R., B.C. Silver ore from.....	42
Crow Nest mine, Guysborough co., N.S. Gold quartz from.....	37
Cullen area, East R., Pictou co., N.S. Iron ore from.....	75

D.

Dalhousie mine, tp. Dalhousie, Lanark co., Ont. Iron ore from.....	65, 73
Dandy claim, Toad Mtn., B.C. Silver ore from.....	42
Dardanelles claim, W. Kootanie dt., B.C. Silver ore from.....	46

INDEX TO MINING DISTRICTS, ETC.—*Continued.*

	Page.
Dawson mine, Pie Isd., Lake Superior, Ont. Silver ore from.....	52
DeCew's quarry, Oneida, Haldimand co., Ont. Sandstone from.....	111
Della claim, Kootanie L., B.C. Silver ore from.....	43
Dictator claim, Kootanie L., B.C. Silver ore from.....	43
Dominion mine, tp. Madoc, Hastings co., Ont. Iron ore from.....	70
Drummond Colliery, Pictou co., N.S. Coal from.....	104
Dufferin mine, tp. Madoc, Hastings co., Ont. Iron ore from.....	70
Dugway pit, tp. Portland W., Ottawa co., Que. Apatite from.....	151
Duncan mine, tp. McGregor, Ont., Silver ore from.....	48
Dunvegan claim, Illecillewaet dt., B.C. Silver ore from.....	45
Durham mine, tp. Durham, Drummond co., Que. Copper ore from.....	85
Dwyer and Loughran's loc., tp. Drury, Ont. Nickel ore from.....	59

E.

East quarry, Grandique, N.S. Gypsum from.....	129
East Kootanie district, B.C. Silver ores from.....	41
Ebenezer mine, Hector Pass, Rocky Mtns., B.C. Mercury ore from.....	7
Edinburgh claim, Illecillewaet dt., B.C. Silver ore from.....	44
Emerald mine, tp. Buckingham, Ottawa co., Que. Apatite from.....	150, 163
— mining loc., Root R., Ont. Copper ore from.....	86
Emery mine, Cape Breton co., N.S. Coal from.....	104
Emily mine, tp. Tudor, Hastings co., Ont. Iron ore from.....	70
Enterprise mine, tp. McTavish, Ont. Silver ore from.....	51
Eureka mine, Fort Hope, Fraser R., B.C. Silver ore from.....	50
Evans mine, tp. Snider, Ont. Copper ore from.....	86
— — tp. Snider, Ont. Nickel ore from.....	55, 58
Evening Tide claim, Toad Mtn., B.C. Silver ore from.....	42
Ewarts location, L. Superior, Ont. Copper ore from.....	83

F.

Farquhar and Booth's quarry, Halton co., Ont. Sandstone from.....	111
Feeney's quarry, tp. Madoc, Hastings co., Ont. Limestone from.....	109
Fenwick and Selater's mine, Megantic co., Que. Serpentine from.....	164
Fishburn claim, Illecillewaet dt., B.C. Silver ore from.....	45
Fitzroy lead mine, township Fitzroy, Carleton co., Ont. Lead ore from.....	51, 53
Florence claim, Illecillewaet dt., B.C. Silver ore from.....	45
Foley mine, tp. Bathurst, Lanark co., Ont. Iron ore from.....	79
Forsyth mine, tp. Hull, Ottawa co., Que. Iron ore from.....	63, 68
Forty-nine acre mine, tp. Madoc, Hastings co., Ont. Iron ore from.....	70
Fournier mine, tp. S. Sherbrooke, Lanark co., Ont. Iron ore from.....	69
Fraser Saddler area, Pictou co., N.S. Iron ore from.....	66, 75
Freddie Lee claim, W. Kootanie dt., B.C. Silver ore from.....	46
French Fort quarry, Northumberland co., N.B. Sandstone from.....	111
Frontenac lead mine, Frontenac co., Ont. Lead ore from.....	51
Fulton's quarry, Plaster Cove, N.S. Gypsum from.....	130

INDEX TO MINING DISTRICTS, ETC.—*Continued.*

G.

	Page.
Galt's mine, tp. Orford, Sherbrooke co., Que. Copper ore from.....	89
Gardiner mine, Cape Breton co., N.S. Coal from.....	104
Gatling mine, tp. Marmora, Hastings co., Ont. Gold ore from.....	38, 39, 56
Gibson's quarry, tp. Grimsby, Lincoln co., Ont. Dolomite from.....	110
Gillen mine, tp. Madoc, Hastings co., Ont. Iron ore from.....	70
— — tp. Marmora, Hastings county, Ont. Gold quartz from.....	38
Gladstone mine, tp. Marmora, Hastings co., Ont. Gold quartz from.....	38
Glendower mine, tp. Bedford, Frontenac county., Ont. Iron ore from.....	69
Gold Hill claim, Illecillewaet dt., B.C. Silver ore from.....	45
Goodfellows mine, Albert co., N.B. Copper ore from.....	90
Grant mine, tp. Buckingham, Ottawa co., Q. Apatite from.....	153
Grant's quarry, Summerville, N.S. Gypsum from.....	130
Great Western claim, W. Kootanie dt., B.C. Silver ore from.....	46
Grizzly claim, Toad Mtn., B.C. Silver ore from.....	42

H.

Haldane's mine, tp. Wakefield, Ottawa co., Que. Apatite from.....	151, 154
Hancock's quarry, Barton, Wentworth co., Ont. Dolomite from.....	110
Handkerchief mine, Lotbinière co., Que. Gold quartz from.....	38
Haney's claim, N. Saskatchewan R., Ala. Iron ore from.....	77
Hanson's quarry, Falmouth, N.S. Gypsum from.....	129
Harrison location, St. Ignace Isd., Lake Superior, Ont. Copper ore from.....	88
Harris' mine, tp. Wakefield, Ottawa county, Que. Apatite from.....	151
Hartford mine, tp. Ascot, Sherbrooke co., Que. Copper ore from.....	90
Harvey Hill mine, Megantic co., Que. Copper ore from.....	7, 84, 85, 88, 89, 90
Haycock mine, tp. of Templeton, Ottawa co., Que. Iron ore from.....	73
Heudryx mining camp, B.C. Silver ores from.....	44
Herringback claim, Illecillewaet dt., B.C. Silver ore from.....	44
Hibbard Mining Co., L. George, York co., N.B. Antimony ore from.....	54, 57
Highlander claim, Kootanie L., B.C. Silver ore from.....	43
High Rock mine, tp. Portland W., Ottawa co., Que. Apatite from.....	151
Hobson mine, tp. Madoc, Hastings co., Ont. Iron ore from.....	70
Hogg's quarry, tp. Lanark, Lanark co., Ont. Limestone from.....	108
Homestead claim, Columbia R., B.C. Gold quartz from.....	46
Hot Springs or Ainsworth mining camp, B.C. Silver ores from.....	43
Howse mine, tp. Bedford, Frontenac co., Ont. Iron ore from.....	69
Hull mica mine, tp. Hull, Ottawa co., Que. Mica from.....	141
Hunter's pit, tp. Portland W., Ottawa co., Que. Apatite from.....	151
Huntingdon mine, tp. Bolton, Brome co., Que. Copper ore from.....	85, 90, 164
Huronian mine, tp. Moss, Ont. Gold ore from.....	8, 38, 49
Huron Copper Bay loc., L. Huron, Ont. Copper ore from.....	86, 91

I.

Ibex claim, Illecillewaet dt., B.C. Silver ore from.....	45
Illecillewaet Mines, B.C. Silver ore from.....	44

INDEX TO MINING DISTRICTS, ETC.—*Continued.*

	Page.
Inverhuron quarries, Bruce co., Ont. Lithographic stone from.....	149
Iron Horse claim, W. Kootanie dt., B.C. Silver ore from.....	45
Iroquois claim, Toad Mtn., B.C. Silver ore from.....	42
Isabella claim, Illecillewaet R., B.C. Silver ore from.....	44

J.

Jackson Rae mine, tp. Templeton, Ottawa co., Que. Apatite from.....	153
Jeff Davis claim, Kootanie L., B.C. Silver ore from.....	33
Jennings diggings, Halifax co., N.S. Gold quartz from.....	37
Jenny Long claim, Nicola Valley, B.C. Silver ore from.....	47
Joggins mine, Cumberland co., N.S. Coal from.....	104
Johnson's mine, tp. Thetford, Megantic co., Que. Asbestos from.....	138, 140
Joshua claim, Nicola Valley, B.C. Silver ore from.....	41, 46
Jumbo claim, Illecillewaet dt., B.C. Silver ore from.....	44
— — Toby Ck., B.C. Silver ore from.....	42

K.

Kaslo-Slocan Mines, B.C. Silver ores from.....	45
Kean ore bed, tp. Marmorra, Hastings co., Ont. Iron ore from.....	70
Keating's location, L. Huron, Ont. Copper ore from.....	86, 89, 91
Killog mine, Sheet Hbr., Halifax co., N.S. Gold quartz from.....	37
Kilpatrick's quarry, Frontenac co., Ont. Limestone from.....	109
King's mine, tp. Thetford, Megantic co., Que. Asbestos from.....	140
King William claim, Nicola Valley, B.C. Silver ore from.....	41, 47
Kootanie Bonanza claim, Toad Mtn., B.C. Silver ore from.....	42
— Chief claim, Kootanie L., B.C. Silver ore from.....	44
Krao claim, Kootanie L., B.C. Silver ore from.....	43

L.

Labeau Mines, Cottonwood-Smith Ck., B.C. Silver ore from.....	43
Lady of the Lake claim, Illecillewaet dt., B.C. Silver ore from.....	45
Lanark claim, Illecillewaet R., B.C. Silver ore from.....	44
Latchey's quarry, Windsor, N.S. Gypsum from.....	129
Leary lead, Tangier, Halifax co., N.S. Gold quartz from.....	5, 37
Leronde mine, tp. Bagot, Renfrew co., Ont. Iron ore from.....	69
Lingan mine, Cape Breton co., N.S. Coal from.....	104
Lionais mine, Black L., Megantic co., Que. Asbestos from.....	140
Little Donald claim, Kootanie L., B.C. Silver ore from.....	43
Location C. 45, Little Pic R., Ont. Lead ore from.....	51
— R. 238, dt. Thunder Bay, Ont. Silver ore from.....	49
— R. 280, dt. Thunder Bay, Ont. Iron ore from.....	74

INDEX TO MINING DISTRICTS, ETC.—*Continued.*

	Page.
Location T. 96, tp. Gillies, Ont. Silver ore from.....	41
— Y. xii, tp. Killarney, Ont. Iron ore from.....	64
— 22-26, tp. McIntyre, Ont. Iron ore from.....	67
Lorway mine, Cape Breton co., N.S. Coal from.....	104
Louis claim, nr. Otter-tail Station, C.P.R., B.C. Silver ore from.....	41
Louise mine, tp. Tudor, Hastings co., Ont. Iron ore from.....	70
Lucky Jim claim, W. Kootanie dt., B.C. Silver ore from.....	46

M.

McAndrew's pit, tp. Portland W., Ottawa co., Quebec. Apatite from...	151
McCallum ore bed, tp. Marmora, Hastings co., Ont. Iron ore from.....	70
McCormick's mine, tp. Neelon, Ont. Nickel ore from.....	58
McFarlane's mine, Frontenac co., Ont. Apatite from.....	154
McGregor's quarry, Argenteuil co., Que. Limestone from.....	108
McIntyre's mine, L. Superior, Ont. Zinc ore from.....	59
McKellar Bros. location, Atic-okan R., Ont. Iron ore from.....	64, 71
McKinley's location, dt. Thunder Bay, Ont. Iron ore from.....	71
— mine, Alma, Albert co., N.B. Copper ore from.....	87
McLaurin's mine, tp. Templeton, Ottawa co., Que. Apatite from.....	150, 153
McMullin's quarry, Otty L., Lanark co., Ont. Sandstone from.....	111
McMurdo mining area, B.C. Silver ores from.....	42
McPherson's quarry, Pictou co., N.S. Sandstone from.....	111
McVicar's mine, Cape Breton co., N.S. Iron ore from.....	72
Mahoney's quarry, tp. Hull, Ottawa co., Quebec. Limestone from.....	108
Malaspina mine, Texada Isd., B.C. Copper ore from.....	92
Maple Leaf claim, Illecillewaet R., B.C. Silver ore from.....	44
Marsh Colliery, Pictou co., N.S. Coal from.....	104
— mine, Rocky Mtns, Alta. Semi-anthracite from.....	102
— ore bed, tp. Marmora, Hastings co., Ont. Iron ore from.....	70
Mary Reynolds claim, Nicola Valley, B.C. Silver ore from.....	47
Mascot claim, Copper Ck., B.C. Silver ore from.....	42
Merry mine, tp. Palmerston, Frontenac co., Ont. Iron ore from.....	69
Meyer's mine, tp. S. Sherbrooke, Lanark co., Ont. Iron ore from.....	63
Melbourne quarry, Richmond co., Que. Asbestos from.....	138
— slate quarry, Richmond co., Que. Slate from.....	107
Miller's mine, tp. Grenville, Argenteuil co., Que. Graphite from.....	136
Milner bed, Annapolis co., N.S. Iron ore from.....	68
Mining location, see under Locations.	
Moberly's mine, Rocky Mtns., B.C. Semi-anthracite from.....	102
Monarch claim, Mt. Stephen, B.C. Silver-lead ore from.....	42, 54
Monashee mine, Cherry Ck., and Kettle R. (between), B.C. Gold quartz from.....	47
Montagu mine, Halifax co., N.S. Gold quartz from.....	37
Monte Cristo claim, W. Kootanie dt., B.C. Silver ore from.....	45
Montezuma claim, W. Kootanie dt., B.C. Silver ore from.....	45

INDEX TO MINING DISTRICTS, ETC.—*Continued.*

	Page.
Montreal and New Glasgow Coal Co.'s mine., Pictou co., N.S. Coal from.	104
Moore's clearing, tp. Westmeath, Renfrew co., Ont. Graphite from.....	137
— mine, tp. Hull, Ottawa co., Que. Apatite from.....	154
— mine, tp. Wakefield, Ottawa co., Que. Apatite from.....	151, 154
Morrison's mine, Cape Breton co., N.S. Manganese ore from.....	62
Murray mine, tp. McKim, Ont. Copper ore from.....	91
— — tp. McKim, Ont. Nickel ore from.....	58

N.

Neilson mine, tp. Madoc, Hastings co., Ont. Iron ore from.....	164
Nelson's claim, Upper Cherry Ck., B.C. Gold from.....	5
Nelson Island quarry, Jervis Inlet, B.C. Granite from.....	112
Neosho claim, Kootanie L., B.C. Silver ore from.....	43, 44
Nevada claim, Tulameen R., B.C. Silver ore from.....	47
Nicola or Stump Lake Mines, B.C. Silver ore from.....	46
Nicolet Branch mine, tp. Ham, Wolfe co., Que. Copper ore from.....	85, 89, 90
Nigadoo mine, Gloucester co., N.B. Lead ore from.....	50, 52
Nihil mine, tp. Marmora, Hastings co., Ont. Iron ore from.....	70
Noble Five claim, W. Kootanie dt., B.C. Silver ore from.....	46
North Bend quarry, Fraser R., B.C. Granite from.....	113
— Star mine, tp. Portland E., Ottawa co., Que. Apatite from.....	150
Number One claim, Kootanie L., B.C. Silver ore from.....	43

O.

O'Connor's claim, tp. Lorne, Ont. Nickel ore from.....	54, 59
Okanagan claim, W. Kootanie dt., B.C. Silver ore from.....	46
Orford nickel mine, Sherbrooke co., Que. Nickel ore from.....	54
Orton mine, tp. Tudor, Hastings co., Ont. Iron ore from.....	70

P.

Paxton & Jones' mine, Haliburton co., Ont. Iron ore from.....	71
Payne claim, W. Kootanie dt., B.C. Silver ore from.....	45
Payzant's quarry, Falmouth, N.S. Gypsum from.....	130
Peter Bell location, L. Superior, Ont. Iron ore from.....	64
— Totten lot, Colchester co., N.S. Iron ore from.....	73, 76
Pie Island mine, Pie Isd., L. Superior, Ont. Silver ore from.....	52
Pioneer claim, Otter-tail Ck., B.C. Silver ore from.....	41
Planet claim, Nicola Valley, B.C. Silver ore from.....	47
Point Anne quarry, Hastings co., Ont. Limestone from.....	109
— Levis quarry, Levis co., Que. Sandstone from.....	112
Poor Man claim, vic. Nelson, B.C. Silver ore from.....	43
Porcupine mine, tp. Gillies, Ont. Silver ore from.....	48

INDEX TO MINING DISTRICTS, ETC.—*Continued.*

	Page.
Potter bed, Annapolis co., N.S. Iron ore from.....	68
Prince's location, L. Superior, Ont. Copper ore from.....	88, 92
— — L. Superior, Ont. Silver ore from.....	48

R.

Rabbit Mountain mine, tp. Paipoonge, Ont. Silver ore from.....	48
Railway quarry, Lanark co., Ont. Dolomite from.....	110
Ramsay lead mine, Lanark co., Ont. Lead ore from.....	51, 53
Rankin Hill slate quarry, Bagot co., Que. Slate from.....	106
— mine, Root R., Ont. Copper ore from.....	86, 91
Rankin's quarry, Renfrew co., Ont. Sandstone from.....	111
Renfrew Granite quarry, Renfrew co., Ont. Limestone from.....	109
Richardson mine, tp. Madoc, Hastings co., Ont. Gold from.....	39
Robertsville mine, Frontenac co., Ont. Iron ore from.....	69
Rockland slate quarry, Richmond co., Que. Slate from.....	107
Rockville quarries, Carleton co., Ont. Limestone from.....	108
Rosebush claim, Copper Ck., Kamloops L., B.C. Cinnabar from.....	7, 30
Ryan's location, L. Superior, Ont. Iron ore from.....	65

S.

Sadou's ledge, Mosquito Ck., Cariboo, B.C. Silver ore from.....	47
Sailor Boy claim, Illecillewaet R., B.C. Silver ore from.....	44
St. Alban quarry, Portneuf co., Que. Limestone from.....	107
Ste. Caroline mine, St. Clair, Dorchester co., Que. Copper ore from.....	87
St. Charles mine, tp. Tudor, Hastings co., Ont. Iron ore from.....	70
— — tp. Madoc, Hastings co., Ont. Iron ore from.....	74
St. Francis mine, Richmond co., Que. Copper ore from.....	84
Sand-pit bed, Peterborough co., Ont. Iron ore from.....	63
Sanquahar claim, Illecillewaet dt., B.C. Silver ore from.....	44
Schooner Pond mine, Cape Breton co., N.S. Coal from.....	104
Scottish Canadian Co.'s mine, Megantic co., Que. Asbestos from.....	138
Senecal's mine, Black L. Megantic co., Que. Asbestos from.....	140
Sexsmith mine, tp. Madoc, Hastings co., Ont. Iron ore from.....	70
Seymour mine, tp. Madoc, Hastings co., Ont. Iron ore from.....	63, 70
— ore bed. See Seymour mine.	
Shakespere claim, Illecillewaet dt., B.C. Silver ore from.....	45
Sheppard's location, St. Ignace Isd., L. Superior, Ont. Copper ore from.....	88
Sheran's mine, Coal Banks, Belly R., Alta. Coal from.....	98
Shuniah mine, tp. McIntyre, Ont. Silver ore from.....	48
Silver Bow claim, Illecillewaet dt., B.C. Silver ore from.....	45
— Harbour mine, tp. McGregor, Ont. Silver ore from.....	48
— Hill claim, tp. Lybster, Ont. Silver ore from.....	49
— Islet, L. Superior, Ont. Silver ore from.....	48

INDEX TO MINING DISTRICTS, ETC.—Continued.

	Page.
Silver King claim, Toad Mtn., B.C. Silver ore from.....	42
— Lake mining location, tp. McTavish, Ont. Iron ore from.....	65, 74
— — — — tp. McTavish, Ont. Lead ore from.....	53
— Mountain mine, tp. Lybster, Ont. Silver ore from.....	49
— Queen claim, Jamieson Ck., B.C. Silver ore from.....	47
— Tip claim, W. Kootanie dt., B.C. Silver ore from.....	45
Singleton mine, tp. McIntyre, Ont. Silver ore from.....	48
Sky Line claim, Kootanie L., B.C. Silver ore from.....	43
Slocan Boy claim, W. Kootanie dt., B.C. Silver ore from.....	46
— Star claim, W. Kootanie dt., B.C. Silver ore from.....	46
Smith's mine, tp. Ascot, Sherbrooke co., Que. Iron ore from.....	63
— pit, tp. Portland W., Ottawa co., Que. Apatite from.....	151
Solo claim, W. Kootanie dt., B.C. Silver ore from.....	45
Southern Interior of British Columbia. Silver ores from.....	46
Split Rock plumbago mine, St. John co., N.B. Graphite from.....	136
Spokane claim, Kootanie L., B.C. Silver ores from.....	43
Springhill Mines, Cumberland co., N.S. Coal from.....	104
Spring mine, tp. Templeton, Ottawa co., Que. Apatite from.....	150
Stanley ledge, Cayoosh Ck., B.C. Gold quartz from.....	47
Star claim, Nicola Valley, B.C. Silver ore from.....	41, 46
— Hill mine, tp. Portland W., Ottawa co., Que. Apatite from.....	151
Steele's quarry, Richmond co., Que. Slate from.....	107
Stephen's mine, Walton, Hants co., N.S. Manganese ore from.....	62
Sterling mine, Kokesaila R., V. I., B.C. Lead ore from.....	52
Stevens mine, Carleton co., N.B. Iron ore from.....	73
Stobie location, dt. Algoma, Ont. Copper ore from.....	91
— mine, tp. Coffin, Ont. Iron ore from.....	74
— — tp. Blezard, Ont. Nickel ore from.....	58
Strange's quarry, Rockwood, Wellington co., Ont. Dolomite from.....	110
Stump Lake or Nicola Mines. Silver ore from.....	46
Suffield mine, tp. Ascot, Sherbrooke co., Que. Copper ore from.....	50, 90
Sultana mine, Lake of the Woods, Ont. Gold quartz from.....	38
Sunrise claim, Kootanie L., B.C. Silver ore from.....	43
Sutherland's mine, Souris R., Man. Lignite from.....	94
Sweden claim, Kootanie L., B.C. Silver ore from.....	43
Sweet's mine, tp. Sutton, Brome co., Que. Copper ore from.....	84
— quarry, Windsor, N.S. Gypsum from.....	129
Sydney Mines, Cape Breton co., N.S. Coal from.....	104
Syenite Bluff claim, Deception Ck., B.C. Silver ore from.....	42

T.

Three A mine, tp. McGregor, Ont. Silver ore from.....	48
Thunder Bay mine, tp. McGregor, Ont. Silver ore from.....	48
— — mining region, Ont. Silver ores from.....	48
Tiger claim, Kootanie L., B.C. Silver ore from.....	43

INDEX TO MINING DISTRICTS, ETC.—Continued.

	Page.
Timothy claim, Read Isd., V. I., B.C. Mercury ore from.....	7
Toad Mountain mining camp, B.C. Silver ores from.....	42
Todd's mine, St. Stephen, Charlotte co., N.B. Nickel ore from.....	54
Tough Nut claim, Toad Mtn., B.C. Silver ores from.....	42
Travers mine, tp. Drury, Ont. Nickel ore from.....	59
Triangle claim, W. Kootanie dt., B.C. Silver ores from.....	45
Tubal Cain claim, Nicola Valley, B.C. Silver ore from.....	41, 47
Twin Cities mine, tp. Gillies, Ont. Silver ore from.....	48

U.

Umatilla claim, Cottonwood-Smith Ck., B. C. Silver ore from.....	43
Uncle Sam claim, Cottonwood-Smith Ck., B.C. Silver ore from.....	43
Union claim, Illecillewaet dt., B.C. Silver ore from.....	45
— — Tulameen R., B.C. Silver ore from.....	47
— mine, Comox, V. I., B.C. Coal from.....	101
United claim, Kootanie L., B.C. Silver ore from.....	43

V.

Vale Colliery, Pictou co., N.S. Coal from.....	104
Vaughan's mine, Bow R., Alta. Coal from.....	100
Vermilion mine, tp. Denison, Ont. Copper ore from.....	91
— — tp. Denison, Ont. Nickel ore from.....	7, 8, 58
Vernon mine, St. Martin's, St. John co., N.B. Copper ore from.....	90
Victoria mine, Cape Breton co., N.S. Coal from.....	104
— — Garden R., Ont. Lead ore from.....	7, 51, 53
Villeneuve mica mine, Ottawa co., Que. Felspar from.....	139, 148
— — — Ottawa co., Que. Mica from.....	141

W.

Wallace mine, dt. Algoma, Ont. Copper ore from.....	86, 91
— — dt. Algoma, Ont. Nickel ore from.....	55, 59
— mining location, dt. Algoma, Ont. Iron ore from.....	74
Wallbridge mine, tp. Madoc, Hastings co., Ont. Iron ore from.....	65, 74
Washington claim, W. Kootanie dt., B.C. Silver ore from.....	46
Waters mine, Alma, Albert co., N.B. Copper ore from.....	88
Watts mine, tp. Portland E., Ottawa co., Que. Apatite from.....	153
Wellington mine, L. Huron, Ont. Copper ore from.....	86, 91
— — Nanaimo, V. I., B.C. Coal from.....	101
— — W. Kootanie dt., B.C. Silver ore from.....	5, 46, 50
Wentworth grant, Pictou co., N.S. Iron ore from.....	64
West Kootanie district, B.C. Silver ores from.....	42
West quarry, Grandique, N.S. Gypsum from.....	129

INDEX TO MINING DISTRICTS, ETC.—*Continued.*

	Page.
White Heather claim, W. Kootanie dt., B.C. Silver ore from.....	45
Wickham mine, Drummond co., Que. Copper ore from.....	85
Wilbur mine, tp. Lavant, Lanark co., Ont. Iron ore from.....	69
Wilkins' quarry, Windsor, N.S. Gypsum from.....	129
Williams mine, tp. Bagot, Renfrew co., Ont. Iron ore from.....	69
Wilson mine, tp. Bagot, Renfrew co., Ont. Iron ore from.....	69
Wilson's location, L. Superior, Ont. Copper ore from.....	89
— mine, tp. Wakefield, Ottawa co., Que. Apatite from.....	151, 154
Wood's location, tp. Sibley, Ont. Lead ore from.....	52
Worthington mine, tp. Drury, Ont. Copper ore from.....	86, 91
— — tp. Drury, Ont. Nickel ore from.....	54, 59
Wright's mine, tp. Hull, Ottawa co., Que. Lead ore from.....	51, 53
— quarry, tp. Hull, Ottawa co., Que. Limestone from.....	108, 127

Y.

Yankee mine, tp. S. Crosby, Lanark co., Ont. Iron ore from.....	79
Yosemite claim, W. Kootanie dt., B.C. Silver ore from.....	45
Youman's mine, tp. Wells, Ottawa co., Que. Apatite from.....	154
Young's quarry, Falmouth, N.S. Gypsum from.....	130

Z.

Zeila claim, Nicola Valley, B.C. Silver ore from.....	47
Zenith zinc mine, L. Superior, Ont. Zinc ore from.....	55

INDEX TO SUBJECTS.

For explanation of the abbreviations employed in this Index see heading to the preceding one to Mining districts, etc.

A.

	Page.
Abrasive materials.....	160
Infusorial earth.....	161
Marl, arenaceous and calcareous.....	152, 162
Mica slates.....	161
Sandstones.....	160
Silicious sand.....	162
Silicious silt.....	162
Actinolite.....	17
Agalmatolite.....	23
Agate.....	10, 145, 149
Alabaster.....	147
Albertite.....	29, 104
Albite.....	15, 31, 99, 146, 149
Alluvial gold,—see Placer gold.	
Almandite.....	18, 31
Alum, Feather,—see Halotrichite.	
Alum, Iron,—see Halotrichite.	
Alunogen.....	28
Amazon-stone.....	15, 31, 149
Amethyst.....	10, 30, 34, 145, 146, 147, 149, 164
Analcite.....	22, 32
Andalusite.....	19
Andesine.....	15, 164
Andradite.....	18
Anhydrite, from :	
Hillsborough, Albert co., N.B.....	27, 131
Wentworth, Hants co., N.S.....	27
Windsor, Hants co., N.S.....	131
Ankerite, from :	
Acadia Mines, Colchester co., N.S.....	83
Acton, tp. of, Bagot co., Que.....	14
Colchester co., N.S.....	14
Anorthite.....	15
Anthracite, Cowgitz, Graham Island, B.C.....	29, 102
Anthracite, semi,—see Semi-anthracite.	
Anthracitic coal, Cascade River, Rocky Mtns., Alta.....	102
Anthraxolite.....	29

INDEX TO SUBJECTS—*Continued.*

	Page.
Antimony, Minerals and ores of :	
Antimony, Native.....	5, 54, 57
— blende,—see Kermesite.	
— bloom,—see Valentinite.	
— glance,—see Stibnite.	
Grey antimony,—see Stibnite.	
Kermesite.....	8, 57
Red antimony,—see Kermesite.	
Senarmontite.....	11
Stibnite.....	6, 54, 57
Valentinite.....	11, 57
Antimony, Native, from :	
Prince William, York co., N.B.....	8, 57
South Ham, tp. of, Wolfe co., Que.....	5, 54, 57
Antimony ore, specimens illustrating the distribution of.....	57
Apatite, from :	
Bathurst tp. of, Lanark co., Ont.....	154
Bedford, tp. of, Frontenac co., Ont.....	151, 155
Bowman, tp. of, Ottawa co., Que.....	154
Bromley, tp. of, Renfrew co., Ont.....	33
Buckingham, tp. of, Ottawa co., Que.....	150, 153, 163
Drummond, tp. of, Lanark co., Ont.....	154
Dudley, tp. of, Peterborough co., Ont.....	155
Dysart, tp. of, Peterborough co., Ont.....	155
Eabamet L., Albany R., Severn dt.....	155
Ferris, tp. of, dt. Nipissing, Ont.....	155
Grenville, tp. of, Argenteuil co., Que.....	150, 153
Harcourt, tp. of, Peterborough co., Ont.....	155
Hinchinbrook, tp. of, Frontenac co., Ont.....	151
Hull, tp. of, Ottawa co., Q.....	151, 153, 154
Huntley, tp. of, Carleton co., Ont.....	154
Litchfield, tp. of, Pontiac co., Que.....	154
Lochaber, tp. of, Ottawa co., Que.....	150, 153
Loughborough tp. of, Frontenac co., Ont.....	154
March, tp. of, Carleton co., Ont.....	154
Monmouth, tp. of, Peterborough co., Ont.....	155
North Burgess, tp. of, Lanark co., Ont.....	151, 154
North Elmsley, tp. of, Lanark co., Ont.....	151, 154
Portland East, tp. of, Ottawa co., Que.....	150, 153
Portland West, tp. of, Ottawa co., Que.....	151, 153
Ross, tp. of, Renfrew co., Ont.....	33
Sebastopol, tp. of, Renfrew co., Ont.....	33, 151, 154
Storrington, tp. of, Frontenac co., Ont.....	151, 154
Templeton, tp. of, Ottawa co., Que.....	150, 153
Wakefield, tp. of, Ottawa co., Que.....	33, 151, 154
Wells, tp. of, Ottawa co., Que.....	154

INDEX TO SUBJECTS—*Continued.*

	Page.
Apatite, Mineral associations of.....	155
Apatite, specimens illustrating the distribution of.....	153
Aphrodite.....	25
Apophyllite.....	20, 32
Argentite (silver glance), from :	
Crooks, tp. of, dt. Thunder Bay, Ont.....	48
Gillies, tp. of, dt. Thunder Bay, Ont.....	48
Granite Ck., Tulameen R., B.C.....	6
Jarvis Isd., L. Superior, Ont.....	49
Lybster, tp. of, dt. Thunder Bay, Ont.....	6, 49
McGregor, tp. of, dt. Thunder Bay, Ont.....	48
O'Connor, tp. of, dt. Thunder Bay, Ont.....	49
Paipoonge, tp. of, dt. Thunder Bay, Ont.....	6, 48, 49
Rabbit Mtn., dt. Thunder Bay, Ont.....	49
Arquerite, Vital Ck., dt. Omenica, B.C.....	6
Arsenic, Native, Fraser R., B.C.....	5
Arsenic ores, specimens illustrating the distribution of.....	57
Arsenical pyrites,—see Arsenopyrite.	
Arsenide of platinum,—see Sperryllite.	
Arsenopyrite (mispickel), from :	
Ascot, tp. of, Sherbrooke co., Que.....	57
Caledonia Gold Field, Queens co., N.S.....	8
Marmora, tp. of, Hastings co., Ont.....	8, 56, 57
Montague, Halifax co., N.S.....	57
Asbestos (amphibole), from :	
Marmora, tp. of, Hastings co., Ont.....	17
Potton, tp. of, Brome co., Que.....	17
Asbestos (serpentine var. chrysotile), from :	
Big Isd., L. Nicolet, Wolfe co., Que.....	138, 140
Black L., Megantic co., Que.....	138
Coleraine, tp. of, Megantic co., Que.....	138, 140
Elzevir, tp. of, Hastings co., Ont.....	138, 140
Litchfield, tp. of, Pontiac co., Que.....	140
Melbourne, tp. of, Richmond co., Que.....	138, 140
North Burgess, tp. of, Lanark co., Ont.....	140
Pisarinco Cove, St. John co., N.B.....	140
Ross, tp. of, Renfrew co., Ont.....	140
Sebastopol, tp. of, Renfrew co., Ont.....	138
Shipton, tp. of, Richmond co., Que.....	140
Templeton, tp. of, Ottawa co., Que.....	138, 140
Thetford, tp. of, Megantic co., Que.....	138, 140
Asbestos, articles manufactured from.....	138, 140
Asbestos, specimens illustrating the distribution of.....	140
Asphaltum,—see Petroleum, altered, and bituminous sand rock.	
Asteriated quartz.....	149
Augite.....	16

INDEX TO SUBJECTS—*Continued.*

	Page.
Auriferous conglomerate, Gay's R., Colchester co., N.S.....	38
— dolomite, Leeds, tp. of, Megantic co., Que.....	5, 39
— gneiss, Rawdon, tp. of, Montcalm co., Que.....	39
— hematite, Clinton, B.C.....	5
— mispickel, Marmora, tp. of, Hastings co., Ont.....	39
Auriferous quartz, from :	
Aubert-Gallion, Beauce co., Que.....	38
Belmont, tp. of, Peterborough co., Ont.....	38
Big Bend, Columbia R., B.C.....	46
Caledonia, Queen's co., N.S.....	38
Cayoosh Ck., B.C.....	5, 47
Cherry Ck. and Kettle R., headwaters of, B.C.....	47
Devils Rapids, Chaudière R., Beauce co., Que.....	38
Goldenville, Guysborough co., N.S.....	37
Gold R., Lunenburg co., N.S.....	38
Kelly Lake Ck., Fraser R., B.C.....	47
Lake of the Woods, dt. of Rainy R., Ont.....	38
Lake Shebandowan, dt. Thunder Bay, Ont.....	38
Lawrencetown, Halifax co., N.S.....	37
McCulloch Ck., Columbia R., B.C.....	46
Marmora, tp. of, Hastings co., Ont.....	38
Montague, Halifax co., N.S.....	37, 39
Mooseland, Halifax co., N.S.....	37
Moss, tp. of, dt. Thunder Bay, Ont.....	38
Musquodoboit, Halifax co., N.S.....	37
Oldham, Halifax co., N.S.....	37
Partridge L., dt. Thunder Bay, Ont.....	38
Rawdon, Hants co., N.S.....	37
Renfrew, Hants co., N.S.....	37
Rock Ck., Kettle R., Okanagan, B.C.....	47
St. François, Beauce co., Que.....	38
St. Giles de Beauvillage, Lotbinière co., Que.....	38
St. Mary's, Guysborough co., N.S.....	37
Sheet Harbour, Halifax co., N.S.....	37
Snowshoe Mt., Richfield, Cariboo, B.C.....	38
Tangier, Halifax co., N.S.....	5, 37
Tudor, tp. of, Hastings co., Ont.....	38
Upper Stewiacke, Colchester co., N.S.....	37
Victoria Cape, Jackfish Bay, L. Superior, Ont.....	38
Waverley, Halifax co., N.S.....	37
Wine Harbour, Guysborough co., N.S.....	37
Wollaston, tp. of, Hastings co., Ont.....	38
Auriferous rock, Hixon Ck., Fraser R., B.C.....	47
— — Madoc, tp. of, Hastings co., Ont.....	39
— — Rawdon, tp. of, Montcalm co., Que.....	39
Aventurine felspar.....	15, 149

INDEX TO SUBJECTS—*Continued.*

	Page.
Axinite	20
Azurite	14

B.

Barite (barytes), from :	
Anse à la Vieille, Bonaventure co., Que.	133
Bass R., Colchester co., N.S.	133
Dog L., Frontenac co., N.S.	27
Five Islands, Colchester co., N.S.	27, 33
Galway, tp. of, Peterborough co., Ont.	134
Hull, tp. of, Ottawa co., Que.	27, 134
Iron Isd., L. Nipissing, Ont.	27
Judique, Inverness co., N.S.	133
Lavant, tp. of, Lanark co., Ont.	134
McKellar's Isd., L. Superior, Ont.	27
Madoc, tp. of, Hastings co., Ont.	134
Memramcook, Westmoreland co., N.B.	133
North Burgess, tp. of, Lanark co., Ont.	27, 134
Pakenham, tp. of, Lanark co., Ont.	134
Ramsay, tp. of, Lanark co., Ont.	27, 134
Rossport, L. Superior, Ont.	134
Templeton, tp. of, Ottawa co., Que.	27
Barytes,—see Barite.	
Basalt, columnar.	164
Bath-brick, material suitable for.	162
Beryl.	17
Biotite, from :	
Bouchette, tp. of, Ottawa co., Que.	141
Ross, tp. of, Renfrew co., Ont.	23, 32
Sebastopol, tp. of, Renfrew co., Ont.	23, 34
Biotite, hydrous.	23
Bismuth glance,—see Bismuthinite.	
— minerals,—see Bismuthinite.	
— ore, specimens illustrating the distribution of,	
Bismuthinite, from :	58
Lepreau, Charlotte co., N.B.	58
Little Shuswap L., B.C.	6
McKenzie R., dt. Thunder Bay, Ont.	58
Tudor, tp. of, Hastings co., Ont.	6, 58
Bitumen.	29
Bituminous coal,—see Coal.	
Bituminous sand-rock, Athabasca River, N.W.T.	29, 105
Bituminous shale, Albert Mines, Albert co., N.B.	164
Bituminous shale, Dorchester, Westmoreland co., N.B.	105
Black-lead,—see Graphite.	

INDEX TO SUBJECTS—*Continued.*

	Page.
Blende,—see Sphalerite.	
Blood-stone,—see Heliotrope.	
Blue iron earth,—see Vivianite.	
Blue carbonate of copper,—see Azurite.	
Bog iron-ore, from :	
Ascot, tp. of, Sherbrooke co., Que.....	76
Bastard, tp. of, Leeds co., Ont.....	67, 76
Bolton, tp. of, Brome co., Que.....	30
Bois de Ail, Portneuf co., Que.....	66
Brandon Hills, Man.....	67
Côte St. Charles, Vaudreuil co., Que.....	67, 76
Darling, tp. of, Lanark co., Ont.....	30
Eardley, tp. of, Ottawa co., Que.....	67
Green Isd., Temiscouata co., Que.....	66, 75
Indian Reserve, Inverness co., N.S.....	75
Ireland, tp. of, Megantic co., Que.....	76
Kildare, tp. of, Joliette co., Que.....	66, 75
Lac la Tortue, Champlain co., Q.....	12
Lake Aylmer road, Wolfe co., Que.....	76
L'Acadie, St. John's co., Que.....	75
Leslie, tp. of, Pontiac co., Que.....	67
Montreal R., dt. Nipissing, Ont.....	76
Nictaux R., Annapolis co., N.S.....	66
North Brandon Hills, Man.....	67, 76
North Elmsley, tp. of, Lanark co., Ont.....	67
Point du Lac, St. Maurice co., Que.....	66
Rivière du Chene, co. of Two Mountains, Que.....	67
Rivière du Sud, Bellechasse co., Que.....	66
Ste. Angélique, Vaudreuil co., Que.....	67, 76
Ste. Elizabeth, Joliette co., Que.....	66
St. Etienne, St. Maurice co., Que.....	66, 75
St. Félix, Champlain co., Que.....	66, 75
St. François, Beauce co., Que.....	67, 76
St. Jérôme, Terrebonne co., Que.....	66
Ste. Marguerite, Champlain co., Que.....	66
St. Maurice Forges, St. Maurice co., Que.....	75
Ste. Rose (Rosalie), Lanoraie, Joliette co., Que.....	66, 75
St. Vallier, Bellechasse co., Que.....	12, 66, 75
Simpson, tp. of, Drummond co., Que.....	75
Stanbridge, tp. of, Missisquoi co., Que.....	66, 76
Texada Island, B.C.....	13
Thamesville, Kent co., Ont.....	67, 76
Upper Rocky Point, Eardley, Ottawa co., Que.....	76
Bog iron-ore, specimens illustrating the distribution of.....	75

INDEX TO SUBJECTS—*Continued.*

	Page.
Bog manganese, from :	
Amherst Isd., Magdalen Islands, Que.....	62
French River, Colchester co., N.S.....	62
La Plaine, seigniory of Cacouna, Temiscouata co., Que.....	62
Madoc, tp. of, Hastings co., Que.....	61, 62
Richmond, Carleton co., N.B.....	61
St. George, seigniory of Aubert-Gallion, Beauce co., Que.....	62
St. Louis road, Quebec, Quebec co., Que.....	62
Seigniory of Rivière Ouelle, Kamouraska co., Que.....	61, 62
Bornite (purple-copper ore), from :	
Acton, tp. of, Bagot co., Que.....	84, 89, 163
Adam's Isd., Charlotte co., N.B.....	84, 88
Alma, Albert co., N.B.....	88
Batchewahung Bay, L. Superior, Ont.....	89
Bruce Mines, L. Huron, Ont.....	7, 89
Cleveland, tp. of, Richmond co., Que.....	84, 88
Ham, tp. of, Wolfe co., Que.....	89
Indian Isd., Hamilton Inlet, Labrador.....	88
Inverness, tp. of, Megantic co., Que.....	88
Lake Huron, dt. Algoma, Ont.....	84, 89
Leeds, tp. of, Megantic co., Que.....	7, 84, 88, 89
Mamainse, L. Superior, Ont.....	84, 89
Orford, tp. of, Sherbrooke co., Que.....	89
Pointe aux Mines, L. Superior, Ont.....	89
Roxton, tp. of, Shefford co., Que.....	84
Ste. Marguerite, Lotbinière co., Que.....	84
Salmon Arm, Jarvis Inlet, B.C.....	84
Sutton, tp. of, Brome county, Que.....	84, 89
Tupper, tp. of, dt. Algoma, Ont.....	89
Wendover, tp. of, Drummond co., Que.....	84
Bournonite, Darling, tp. of, Lanark co., Ont.....	9
Breccia, Volcanic, Ballinac Isds., B.C.....	120
Brick clay from :	
Antigonish, Antigonish co., N.S.....	123
Archville, Nepean, Carleton co., Ont.....	123
Avonport, King's co., N.S.....	123
Beckwith, tp. of, Lanark co., Ont.....	123
Belleville, tp. Thurlow, Hastings co., Ont.....	124
Bells Corners, Nepean, Carleton co., Ont.....	123
Bertie, tp. of, Welland co., Ont.....	126
Bloomfield, tp. Hallowell, Prince Edward co., Ont.....	124
Brant, tp. of, Bruce co., Ont.....	125
Brantford, tp. of, Brant co., Ont.....	126
Brockville, Leeds co., Ont.....	124
Carlton West, York co., Ont.....	125
Charlottetown, Queen's co., P. E. I.	123

INDEX TO SUBJECTS—*Continued.*

	Page
Brick clay from :	
Claremont, Cumberland co., N.S.	123
Clinton, tp. of, Lincoln co., Ont.	126
Coal Banks, Belly River, Alta.	126, 127
Crooked Creek, Waterton Lake, Alta.	126
Cypress Hills, Assa.	126
Darlington, tp. of, Durham co., Ont.	124
Doncaster, tp. York, York co., Ont.	125
Ekfrid, tp. of, Middlesex co., Ont.	126
Fairville, St. John co., N.B.	123
Fort Kipp, Old Man River, Alta.	127
Fredericton, York co., N.B.	123
Guichon Creek, Nicola River, B.C.	127
Hamilton, tp. Barton, Wentworth co., Ont.	124
Kenyon, tp. of, Glengarry co., Ont.	123
Kincardine, Bruce co., Ont.	125
Kingston, Frontenac co., Ont.	124
Lewisville, Westmoreland co., N.B.	123
Limehouse, Halton co., Ont.	125
London, Middlesex co., Ont.	126
McNab, tp. of, Renfrew co., Ont.	124
Montreal, Hochelaga co., Que.	123
Nanaimo, Vancouver Island, B.C.	127
Nassagaweya, tp. of, Halton co., Ont.	125
New Edinburgh, Carleton co., Ont.	123
New Westminster (Park reserve), B.C.	127
Otonabee, tp. of, Peterborough co., Ont.	124
Owen Sound, Grey co., Ont.	124
Pasqua, vicinity of, Assa.	126
Pembroke, tp. of, Renfrew co., Ont.	123
Penetanguishene, Simcoe co., Ont.	124
Pincher Creek, Alta.	127
Port Elgin, Bruce co., Ont.	125
Ramsay, tp. of, Lanark co., Ont.	123
Rawdon, tp. of, Hastings co., Ont.	124
Red Deer River, eight miles above Forks of, Assa.	126
Richmond, tp. of Goulburn, Carleton co., Ont.	123
River Denys, Inverness co., N.S.	123
Russell, tp. of, Russell co., Ont.	123
St. Charles River, Quebec, Quebec co., Que.	127
St. Jean, Lotbinière co., Que.	123
St. John's, St. John's co., Que.	123
St. Thomas, Elgin co., Ont.	126
Salt Springs, Dorchester, Antigonish co., N.S.	122
South Saskatchewan R., above Medicine Hat, Assa.	126
Stafford, tp. of, Renfrew co., Ont.	124

INDEX TO SUBJECTS—*Continued.*

	Page
Brick clay from :	
Stephen, Bruce co., Ont.	125
Stony Mountain, Man.	126
Three Rivers, St. Maurice co., Que.	123
Tilsonburg, Oxford co., Ont.	126
Toronto, York co., Ont.	125
Treadwell, tp. N. Plantagenet, Prescott co., Ont.	127
Victoria, Vancouver Island, B.C.	127
Waterton River, at Dutch Fred's crossing, Alta.	127
Westminster, tp. of, Middlesex co., Ont.	126
White Mud River, base of Fox Hills, Assa.	126
Winnipeg, Man.	126
Yamaska, Yamaska co., Que.	123
Yorkville, Toronto, York co., Ont.	125
Bricks, common.	122
— ornamental.	123, 124, 125
-- sand used for making.	127
Brines,—Brine from :	
Baddeck, Victoria co., N.S.	142
Goderich, Huron co., Ont.	142
Kincardine, Bruce co., Ont.	142
Nanaimo, Vancouver Isd., B.C.	143
Port Franks, Lambton co., Ont.	142
Salt Springs, Cumberland co., N.S.	142
Seaforth, Huron co., Ont.	142
Brown hematite,—see Limonite.	
Building stones :	
Dolomites.	110
Gneisses.	113
Granites.	112
Labradorite rock.	113
Limestones.	107
Sandstones.	111
Serpentine.	113
Syenites.	113
Trap rock.	113
C.	
Cacholong.	11, 30
Cacoclasite.	19
Calcareous tufa, from :	
Caledon, tp. of, Peel co., Ont.	14
Cayuga, tp. of, Haldimand co., Ont.	14
Dundas, Wentworth co., Ont.	14
Tobique River, Victoria co., N.B.	14

INDEX TO SUBJECTS—*Continued.*

	Page
Calcite.....	13, 30
— fibrous.....	13
— foetid.....	13
Cannel coal, Cape Morien, Cape Breton co., N.S.....	29
Carbonaceous shale.....	103
Carnelian.....	146
Celestite, from :	
Bagot, tp. of, Renfrew co., Ont.....	27, 134
Forks of the Credit, Peel co., Ont.....	27
Kingston, Frontenac co., Ont.....	27
Lausdowne, tp. of, Leeds co., Ont.....	27, 134
Sydney River, Cape Breton co., N.S.....	134
Cement, hydraulic, prepared from cement-stone from :	
Arthabaska, Arthabaska co., Que.....	129
Grantham, tp. of, Drummond co., Que.....	129
Limehouse, Halton co., Ont.....	129
Nepean, tp. of, Carleton co., Ont.....	129
Quebec, Quebec co., Que.....	128
Cement-stone, raw, from :	
Goderich, Huron co., Ont.....	129
Grantham, tp. of, Drummond co., Que.....	129
Grand Coupe, Gaspé co., Que.....	128
Hochelaga, Hochelaga co., Que.....	129
Kingston, Frontenac co., Ont.....	129
Limehouse, Halton co., Ont.....	129
Nepean, tp. of, Carleton co., Ont.....	129
Pakenham, tp. of, Lanark co., Ont.....	129
Thorold, Welland co., Ont.....	129
Cerussite.....	14
Chabazite.....	21, 22
Chalcedony.....	10
Chalcocite (vitreous copper ore), from :	
Alma, Albert co., N.B.....	87
Brisco Range, Rocky Mountains, B.C.....	88
Dorchester, Westmoreland, co., N.B.....	87
Etchemin R., Dorchester co., Que.....	87
French R., Colchester co., N.S.....	87
Grand Manan Isl., Charlotte co., N.B.....	7, 84, 87
Halifax, tp. of, Megantic co., Que.....	84, 87
Lake Huron, dt. Algoma, Ont.....	7
Leeds, tp. of, Megantic co., Que.....	7, 84, 88
Mamainse, L. Superior, Ont.....	88
Minudie, Cumberland co., N.S.....	87
Pointe aux Mines, L. Superior, Ont.....	88
Point Porphyry, L. Superior, Ont.....	88
Pugwash R., Cumberland co., N.S.....	87

INDEX TO SUBJECTS—*Continued.*

	Page
Chalcocite (vitreous copper ore) from :	
St. Ignace Isd., L. Superior, Ont.	88
Ste. Marguerite, Lotbinière co., Que.	87
Salmon R., Albert co., N.B.	83
Silver City, Rocky Mountains, Alta.	88
Simpson Isd., Passamaquoddy Bay, N.B.	87
Spar Island, L. Superior, Ont.	88
Chalcopyrite (copper pyrites), from :	
Acton, tp. of, Bagot co., Que.	90
Ascot, tp. of, Sherbrooke co., Que.	85, 90
Barford, tp. of, Stanstead co., Que.	90
Beckwith, tp. of, Lanark co., Ont.	85, 90
Belmont, tp. of, Peterborough co., Ont.	91
Bolton, tp. of, Brome co., Que.	85, 90, 164
Brome, tp. of, Brome co., Que.	85, 90
Coxheath, Cape Breton co., N.S.	85, 89
Crow Harbour Isd., Charlotte co., N.B.	90
Denison, tp. of, dt. Algoma, Ont.	91
Drury, tp. of, dt. Algoma, Ont.	86, 91
Durham, tp. of, Drummond co., Que.	85, 90
Echo Lake, dt. Algoma, Ont.	8, 86, 91
Escott, tp. of, Leeds co., Ont.	85, 91
Gananoque Lake, tp. of Leeds, Leeds co., Ont.	85
Garthby, tp. of, Wolfe co., Que.	85, 90
Grand Portage, Mississagui R., dt. Algoma, Ont.	91
Ham, tp. of, Wolfe co., Que.	8, 85, 90
Kootanie River, B.C.	86
Lake, tp. of, Hastings co., Ont.	91
Lake Huron, dt. Algoma, Ont.	8, 86, 91
Lavant, tp. of, Lanark co., Ont.	85
Leeds, tp. of, Megantic co., Ont.	85, 90
Little Pic River, L. Superior, Ont.	86, 92
Lochaber Lake, Antigonish co., N.S.	85, 89
McKim, tp. of, dt. Nipissing, Ont.	86, 91
Mamainse, L. Superior, Ont.	86
Nairn, tp. of, dt. Algoma, Ont.	91
New Ireland, Albert co., N.B.	90
North Burgess, tp. of, Lanark co., Ont.	85
North Elmsley, tp. of, Lanark co., Ont.	85, 90
Orford, tp. of, Sherbrooke co., Que.	85, 90
Palmerston, tp. of, Frontenac co., Ont.	86, 91
Pointe aux Mines, L. Superior, Ont.	92
Polson's Lake, Antigonish co., N.S.	7, 85, 90
Portlock Harbour, L. Huron, Ont.	86
Rat Portage, dt. Rainy River, Ont.	92
Root River, dt. Algoma, Ont.	86, 91

INDEX TO SUBJECTS—*Continued.*

	Page
Chalcopyrite (copper pyrites) from :	
St. Flavien, Lotbinière co., Que.	85, 90
St. Martin's, St. John co., N.B.	90
Shefford, tp. of, Shefford co., Que.	90
Slate Falls, Slate R., dt. Thunder Bay, Ont.	92
Snider, tp. of, dt. Algoma, Ont.	86
South Canonto, tp. of, Frontenac co., Ont.	91
South Similkameen R., B.C.	92
Spanish River, dt. Algoma, Ont.	91
Spar Island, L. Superior, Ont.	92
Straight Lake, dt. Algoma, Ont.	91
Texada Island, B.C.	86, 92
Upton, tp. of, Drummond co., Que.	85
Warwick, tp. of, Athabaska co., Que.	90
Waters, tp. of, dt. Algoma, Ont.	91
Wendover, tp. of, Drummond co., Que.	85
Whitefish River, dt. Algoma, Ont.	86, 91
Wickham, tp. of, Drummond co., Quo.	85
Woodstock, Carleton co., N.B.	90
Chemawinite	29, 150
Chert	148, 149
Chiastolite	19
Chlorite	24
Chlorite, compact,—see Potstone.	
Chloritoid	24
Chondrodite	20
Chromic iron,—see Chromite.	
Chromiferous garnet	18, 31
Chromiferous mica	23
Chromite (chromic iron), from :	
Bolton, tp. of, Brome co., Que.	56
Cleveland, tp. of, Richmond co., Que.	56
Coleraine, tp. of, Megantic co., Que.	60
Leeds, tp. of, Megantic co., Que.	56, 60
Mount Albert, Gaspé co., Que.	12, 56, 60
South Ham, tp. of, Wolfe co., Que.	12, 56, 60, 164
Thetford, tp. of, Megantic co., Que.	60
Chromium ore, specimens illustrating the distribution of	60
Chrysolite	18
Chrysotile	25, 33
Cinnabar, from :	
Copper Ck., Kamloops L., B.C.	7, 30
Hector Pass, Rocky Mtns., B.C.	7
Homatheo River, B.C.	7
Seshart Channel, Vancouver Isd., B.C.	7
Cinnamon stone	18

INDEX TO SUBJECTS—*Continued.*

	Page
Clay, brick,—see Brick clays.	
— fire,—see Fire clay.	
— pottery,—see Pottery clay.	
— used as a pigment.....	133
Clay iron-stone, from :	
Bad Lands, south of Wood Mtn., Assa.....	77
Battle R., ridge south of, Alta.....	77
Big Island, Belly River, Alta.....	77
Coal Banks, Belly River, Alta.....	77
Comox, Vancouver Isd., B.C.....	78
Cow Bay, Cape Breton co., N.S.....	14
Cowgitz, Queen Charlotte Isds., B.C.....	78
Dirt Hills, Assa.....	67, 77
Drift-wood Bend, Belly River, Alta.....	77
East Butte, Assa.....	77
East River, Pictou co., N.S.....	76
Edmonton, Alta.....	14
Fort Pelly, fifteen miles south of, Assa.....	77
Grassy Island, Bow River, Alta.....	77
Great Valley, Assa.....	77
Kananaskis River, Alta.....	77
Middle Bluff, Dirt Hills, Assa.....	77
Mill Ck., Old Man R., Alta.....	77
North Saskatchewan River, Alta.....	67, 77
Pembina River, Man.....	77
Prairie Island, Bow River, Alta.....	77
Queen Charlotte Islands, B.C.....	78
Quesnel, B.C.....	78
Rapid River, Alta.....	77
Red Deer River, Alta.....	77
Skidegate Inlet, Queen Charlotte Isds., B.C.....	78
Smoky River, Atha.....	78
Souris City, Souris River, Man.....	76
Souris River, Assa.....	77
South Joggins, Cumberland co., N.S.....	76
Springhill, Cumberland co., N.S.....	76
Tar Point, Douglas, Gaspé co., Que.....	67
White Mud River, twelve miles east of, Assa.....	77
Coal, of the Carboniferous system, from :	
Acadia Colliery, Pictou co., N.S.....	104
Acadia Mines, Pictou co., N.S.....	103
Albion Mines, Pictou co., N.S.....	103
Block House mine, Cape Breton co., N.S.....	104
Caledonia mine, Cape Breton co., N.S.....	104
Drunmond Colliery, Pictou co., N.S.....	104
Emery mine, Cape Breton co., N.S.....	104

INDEX TO SUBJECTS—*Continued.*

	Page
Coal of the Carboniferous system, from :	
Gardiner mine, Cape Breton co., N.S.....	104
Joggins mine, Cumberland co., N.S.....	104
Kelly Cove, Cape Breton co., N.S.....	104
Lingan mine, Cape Breton co., N.S.....	104
Little Glace Bay mine, Cape Breton co., N.S.....	104
Lorway mine, Cape Breton co., N.S.....	104
Marsh Colliery, Pictou co., N.S.....	104
Montreal and New Glasgow Coal Co.'s mine, Pictou co., N.S.....	104
Schooner Pond mine, Cape Breton co., N.S.....	104
Springhill Mines, Cumberland co., N.S.....	104
Sydney Mines, Cape Breton co., N.S.....	104
Vale Colliery, Pictou co., N.S.....	104
Victoria mine, Cape Breton co., N.S.....	104
Coal of Cretaceous and Laramie age, from :	
Beaver Harbour and Alert Bay, between V. I., B.C.....	101
Bow R., (Vaughan's mine) Alta.....	100
Coal Creek, Bow River, Alta.....	100
— Crow Nest Pass, Rocky Mtns., B.C.....	100
North Thompson River, B.C.....	101
Coal Harbour, Quatsino Sound, V.I., B.C.....	101
Comox, Vancouver Island, B.C.....	101
Crow Nest Pass, Rocky Mtns., B.C.....	100
Departure Bay, Vancouver Isd., B.C.....	101
Elk River, Crow Nest Pass, Rocky Mtns., B.C.....	100
Forward Inlet Quatsino Sound, V.I., B.C.....	101
Ki-uk River, Vancouver Island, B.C.....	101
Klik-si-wi River, Vancouver Island, B.C.....	101
Marten Creek, Crow Nest Pass, Rocky Mtns., B.C.....	100
Mill Creek, Alta.....	100
Mill and Pincher Cks., near headwaters of, Alta.....	100
Nanaimo, Vancouver Island, B.C.....	101
Newcastle Island, nr. Nanaimo, V. I., B.C.....	101
North Kootanie Pass, Rocky Mtns., B.C.....	100
Old Man River, South Fork, Alta.....	99
— Middle Fork, Alta.....	99
— North Fork, Alta.....	99
Oyster Ck., North Fork, Old Man River, Alta.....	99
Pincher Creek, Old Man River, Alta.....	100
Red Deer River, Rocky Mtns., Alta.....	100
Rupert Arm, Quatsino Sound, V.I., B.C.....	101
St. Mary River, Alta.....	99
Sheep Creek, South Fork of, Alta.....	100
Skidegate Inlet, Queen Charlotte Isds., B.C.....	102
Squash, Vancouver Island, B.C.....	101
Upper Belly River, Alta.....	99
Ya-koun River, Graham Island, B.C.....	102

INDEX TO SUBJECTS—*Continued.*

	Page
Coal, lignitic,—see Lignitic coal.	
Coal oil,—see Petroleum.	
Cobalt minerals,—see Danaite, smaltite.	
Coke, from peat.....	93
Coke, from petroleum, hard and soft.....	105
Collection of economic minerals and rocks.....	35
Concretionary nodule, Kaministiquia R., Ont.....	164
Cookeite.....	23
Copper, Minerals and ores of:	
Copper, Native.....	5, 83, 86
Azurite.....	14
Blue carbonate of copper,—see Azurite.	
Bornite.....	7, 84, 88
Chalcocite.....	7, 83, 87
Chalcopyrite.....	7, 85, 89
Copper glance,—see Chalcocite.	
Copper pyrites,—see Chalcopyrite.	
Cuprite.....	11
Green carbonate of copper,—see Malachite.	
Grey copper,—see Tetrahedrite.	
Malachite.....	14
Purple copper-ore,—see Bornite.	
Red copper-ore,—see Cuprite.	
Tetrahedrite.....	9, 50, 89
Vitrous copper ore,—see Chalcocite.	
Yellow copper-ore,—see Chalcopyrite.	
Copper, Native, from:	
Bennet's Brook, Cumberland co., N.S.....	87
British Columbia.....	83
Eleven-mile Creek, Fraser River, B.C.....	87
Fraser River, B.C.....	6, 87
Horse-shoe Cove, Cumberland co., N.S.....	5, 86
Lake Superior, Ont.....	83, 87
Mamainse, L. Superior, Ont.....	83, 87
Michipicoten Isd., L. Superior, Ont.....	5, 83, 87
Minas Basin, Cumberland co., N.S.....	5
Nipigon Bay, Lake Superior, Ont.....	83
St. Ignace Isd., L. Superior, Ont.....	5
Sooke, Vancouver Island, B.C.....	83, 87
Thibert's Creek, Cassiar, B.C.....	87
Two Islands, Cumberland co., N.S.....	5, 86
Vermilion Forks, Similkameen R., B.C.....	87
Vital Creek, Omenica district, B.C.....	6
Copper ores, specimens illustrating the distribution of.....	86
Cuprite.....	11
Cyanite.....	19, 32

INDEX TO SUBJECTS—*Continued.*

D.

	Page
Danaite	8
Dawsonite	14, 30
Delessite	24
Diallage	16, 31
Diopside	16, 31
Diorite, as an ornamental stone.	148
Dog-tooth spar	13, 14, 30, 34
Dolomite	14, 110
Dolomite, as a building stone, from :	
Aldfield, tp. of, Pontiac co., Que.	110
Ancaster, tp. of, Wentworth co., Ont.	110
Barton, tp. of, Wentworth co., Ont.	110
Beckwith, tp. of, Lanark co., Ont.	110
Bell's Corners, Carleton co., Ont.	110
Calumet Island, Pontiac co., Que.	110
Cayuga, tp. of, Haldimand co., Ont.	110
Cobocook, Victoria co., Ont.	110
Grimsby, Lincoln co., Ont.	110
McNab, tp. of, Renfrew co., Ont.	110
Owen Sound, Grey co., Ont.	110
Pelee Island, L. Erie, Ont.	110
Red River, above Stone Fort, Man.	110
Rockwood, tp. of, Wellington co., Ont.	110
Selkirk, Man.	110
Stony Mountain, Man.	110
Drain tiles	125, 126, 127
Dyssontribite	23

E.

Epidote	19, 20, 146, 147
Epsomite	28
Epsom salt, prepared from magnesite from Bolton	134
Essonite	18

F.

Felsite, as a refractory (fire resisting) material	139
Felspar.	
Albite	15, 31, 99, 146, 149
Andesine	15, 164
Anorthite	15
Aventurine	15, 149
Labradorite	15, 146, 147, 149
Microcline	15, 139, 150
Oligoclase	15, 31, 150
Orthoclase	15, 31, 149, 150

INDEX TO SUBJECTS—*Continued.*

	Page
Felspar, for porcelain.....	139
Ferruginous clay, used as a pigment.....	133
— dolomite, used as a pigment.....	133
— rock do do.....	133
Fibrolite.....	19
Fine arts, Minerals applicable to.....	145
Fire-clay, from :	
Dundas, tp. of, Wentworth co., Ont.....	139
Grand Lake, Queen's co., N.B.....	139
Souris City, Souris River, Man.....	139
Flooring tiles.....	107, 123
Fluorite (fluor-spar) from :	
Barton, tp. of, Wentworth co., Ont.....	9
Fluor Island, L. Superior, Ont.....	9
Hull, tp. of, Ottawa co., Que.....	9
McKenzie's River, dt. Thunder Bay, Ont.....	9
Ross, tp. of, Renfrew co., Ont.....	9
Templeton, tp. of, Ottawa co., Que.....	9
Villeneuve, tp. of, Ottawa co., Que.....	9
Fluor-spar,—see Fluorite.	
Fœtid calcite.....	13
Fossil fuel.....	93
Anthracite.....	102
Anthracite, semi,—see semi-anthracite.	
Anthracitic coal.....	102
Cannel coal.....	29
Coal of the Carboniferous system.....	103
Coal of Cretaceous and Laramie age.....	99
Lignite.....	93
Lignitic coal.....	98
Lignitified wood.....	93
Peat.....	93

G.

Galena,—see Galenite.

Galenite (galena). For the most part more or less argentiferous—some highly so—from :

Acton, tp. of, Bagot co., Que.....	50
Ascot, tp. of, Sherbrooke co., Que.....	52
Barrie, tp. of, Frontenac co., Ont.....	51
Bedford, tp. of, Frontenac co., Ont.....	51, 53
Boulder Creek, Omenica, B.C.....	47
Boulder Isl., Lake of the Woods, Ont.....	54
Brome, tp. of, Brome co., Que.....	52
Buckingham, tp. of, Ottawa co., Que.....	51, 53

INDEX TO SUBJECTS—*Continued.*

	Page
Galenite (galena), from :	
Calumet, tp. of, Pontiac co., Que.....	7
Cap Bon Ami, Gaspé co., Que.....	50, 52
Cook's Corner, Missisquoi co., Que.....	50, 52
Copper Ck., East Kootanie dt., B.C.....	42
Dalhousie, tp. of, Lauark co., Ont.....	53
Deception Ck., East Kootanie dt., B.C.....	42
Dorion, tp. of, dt. Thunder Bay, Ont.....	51
Duhamel, tp. of, Pontiac co., Que.....	51, 53
Fitzroy, tp. of, Carleton co., Ont.....	51, 53
Galway, tp. of, Peterborough co., Ont.....	51
Garden River, dt. Algoma, Ont.....	7, 51, 53
Grande Grève, Gaspé co., Que.....	52
Granite Isd., Black Bay, L. Superior, Ont.....	53
Illecillewaet district, B.C.....	44, 45
Illecillewaet River, B.C.....	44
Indian Cove, Gaspé co., Que.....	50, 52
Island No. 2, Silver L., dt. Thunder Bay, Ont.....	53
Kokesaila R., Vancouver Isd., B.C.....	52
Kootanie Lake, east side, B.C.....	44
Kootanie Lake, west side, B.C.....	43
Lake Temiscamingue, dt. Nipissing, Ont.....	51
Lansdowne, tp. of, Leeds co., Ont.....	51, 53
Limerick, tp. of, Hastings co., Ont.....	51, 53
Little Pic River, dt. Thunder Bay, Ont.....	51, 54
Little Whale River, dt. Thunder Bay, Ont.....	7, 51, 53
Loughborough, tp. of, Frontenac co., Ont.....	51
McDane Creek, Cassiar, B.C.....	47
McIntyre, tp. of, dt. Thunder Bay, Ont.....	7
McMurdo district, B.C.....	42
McTavish, tp. of, dt. Thunder Bay, Ont.....	51, 53
Michipicoten Isd., L. Superior, Ont.....	53
Mill Stream, Gloucester co., N.B.....	50, 52
Milton, tp. of, Shefford co., Que.....	52
Mosquito Creek, Cariboo, B.C.....	47
Mount Stephen, Rocky Mtns., B.C.....	41, 42, 54
Nigadoo R., Gloucester co., N.B.....	50, 52
O'Connor, tp. of, dt. Thunder Bay, Ont.....	52
Otter-tail Creek, Rocky Mtns., B.C.....	54
Owls Head, Brome co., Que.....	52
Percé, Gaspé co., Que.....	52
Pie Island, L. Superior, Ont.....	52
Pointe aux Mines, L. Superior, Ont.....	51, 53
Potton, tp. of, Brome co., Que.....	52
Ramsay, tp. of, Lanark co., Ont.....	51, 53
Richmond Gulf, Hudson Bay.....	53

INDEX TO SUBJECTS—*Continued.*

	Page
Galenite (galena), from :	
Risborough, tp. of, Beauce co., Que.....	50, 51
Rock Creek, Kettle River, B.C.....	47
St. Armand, Missisquoi co., Que.....	50, 52
St. Fabien, Rimouski co., Que.....	50, 52
Sibley, tp. of, dt. Thunder Bay, Ont.....	52
Silver Islet, Lake Superior, Ont.....	7, 52
Silver Lake, tp. McTavish, dt. Thunder Bay, Ont.....	51, 53
Snider, tp. of, dt. Algoma, Ont.....	53
Storrington, tp. of, Frontenac co., Ont.....	53
Toby Creek, East Kootanie dt., B.C.....	42
Tudor, tp. of, Hastings co., Ont.....	51, 53
Upton, tp. of, Bagot co., Que.....	50, 52
West Kootanie district, B.C.....	45, 46
Galenite, specimens illustrating the distribution of.....	52
Garnet.....	18, 31, 149
Almandite.....	18
Andranite.....	18
Chromiferous.....	18, 31
Essonite.....	18
Grossularite.....	18, 31
Spessartite.....	18
Gaspé pebbles.....	146
Geology, structural and phenomenal, specimens illustrating.....	167
Gersdorffite.....	8
Glass-making, quartz for,—see Quartz.	
— sand for,—see Sand.	
— sandstone for,—see Sandstone.	
Glaucconite.....	25
Gmelinite.....	22
Gneiss, as a building stone,—from :	
Grenville, tp. of, Argenteuil co., Que.....	113
St. Charles reservoir, Jeune Lorette, Quebec co., Que.....	113
Gneiss, as an ornamental stone.....	146, 147, 148
Gold, alluvial,—see Placer gold.	
Gold in dolomite, tp. Leeds, Megantic co., Que.....	5, 39
Gold in hematite, Clinton, B.C.....	5
Gold, Minerals and ores of :	
Placer gold.....	39
Quartz gold,—see Auriferous quartz.	
Sulphuret gold ores,—see Auriferous mispickel.	
Sylvanite.....	8, 49
Telluride ore,—see Sylvanite.	
Gold, Native, separated from gangue,—from :	
Elzevir, tp. of, Hastings co., Ont.....	39
Hungerford, tp. of, Hastings co., Ont.....	39
Maçoe, tp. of, Hastings co., Ont.....	39

INDEX TO SUBJECTS—*Continued.*

	Page
Göthite.....	12
Granite, as a building stone,—from :	
Barnston, Stanstead co., Que.....	112
Fraser River, B.C.....	113
Nelson Isd., Jervis Inlet, B.C.....	112
Otter Cove, Discovery Passage, B.C.....	113
Port Harvey, Cracroft Isd., Johnstone Strait, B.C.....	112
St. George, Charlotte co., N.B.....	163
St. Joseph, Beauce co., Que.....	112
Granite, column and vase of, polished.....	163
Graphic tellurium,—see Sylvanite.	
Graphite (plumbago, black-lead), from :	
Alkow Harbour, Dean Canal, B.C.....	135, 137
Beresford, tp. of, Terrebonne co., Que.....	136
Bowman, tp. of, Ottawa co., Que.....	5
Buckingham, tp. of, Ottawa co., Que.....	5, 135, 136, 137
Darling, tp. of, Lanark co., Ont.....	135, 137
Denbigh, tp. of, Addington co., Ont.....	135, 136
Fraser River, B.C.....	137
Grenville, tp. of, Argenteuil co., Que.....	5, 30, 135, 136
— Augmentation of, Argenteuil co., Que.....	134, 135, 136
Lochaber, tp. of, Ottawa co., Que.....	5, 135, 137
Loughborough, tp. of, Frontenac co., Ont.....	137
North Elmsley, tp. of, Lanark co., Ont.....	135, 136
St. John, St. John co., N.B.....	134, 136
Skuzzy Creek, Fraser River, B.C.....	136
South Burgess, tp. of, Leeds co., Ont.....	135, 137
Wakefield, tp. of, Ottawa co., Que.....	136
Westmeath, tp. of, Renfrew Co., Ont.....	137
Graphite, articles manufactured from.....	135
— mineral associations of.....	137
— specimens illustrating the distribution of.....	136
Green carbonate of copper,—see Malachite.	
Green vitriol,—see Melanterite.	
Grey antimony,—see Stibnite.	
Grey copper,—see Tetrahedrite.	
Grindstones, made from sandstone, from :	
Allumette Rapids, Renfrew co., Ont.....	160
Bay of Chaleurs, Bonaventure co., Que.....	160
Clifton, Gloucester co., N.B.....	160
Nanaimo, Vancouver Island, B.C.....	161
Pembroke, Renfrew co., Ont.....	160, 161
Grossularite.....	18, 31
Gummite.....	27

INDEX TO SUBJECTS - *Continued.*

	Page
Gypsum, from :	
Alright Isd., Magdalen Islands, Que.....	130
Amherst Isd., Magdalen Islands, Que.....	130
Antigonish, Antigonish co., N.S.....	152
Beaver Brook, Colchester co., N.S.....	130, 152
Black River, Cumberland co., N.S.....	130
Black Rock, Colchester co., N.S.....	33
Blomidon, King's co., N.S.....	28, 130
Bras d'Or Lake, Victoria co., N.S.....	129
Brooklyn, Hants co., N.S.....	130
Cape Blomidon, King's co., N.S.....	33, 130
Falmouth, Hants co., N.S.....	129, 130
Grandique, Richmond co., N.S.....	129
Grand River, Haldimand co., Ont.....	131, 164
Grindstone Isd., Magdalen Islands, Que.....	130
Hamilton Mtn., Wentworth co., Ont.....	33
Hillsborough, Albert co., N.B.....	28, 33, 130, 131
Irvine, vicinity of, Assa.....	28
Lake St. Martin, Man.....	28, 131
Maitland, Hants co., N.S.....	130
Moose River, 38 miles above Moose Factory, dt. Algoma.....	131
Mount Healy, Haldimand co., Ont.....	28, 131, 152
Newport, Hants co., N.S.....	130
Niagara Falls, Welland co., Ont.....	28
Oneida, Haldimand co., Ont.....	131, 152
Oxford, Cumberland co., N.S.....	28, 130
Paris, Brant co., Ont.....	28, 131, 152
Peace Point, Peace River, Atha.....	131
Pembina Mountain, Man.....	28
Petitcodiac, Westmoreland co., N.S.....	152
Plaster-cliff, Tobique R., Victoria co., N.B.....	130
Plaster Cove, Wallace Hbr., Cumberland co., N.S.....	130
Pyramid Valley, Assa.....	28
St. Ann's Bay, Cape Breton co., N.S.....	27, 129
Salmon River, British Columbia.....	131
Salt Springs station, Cumberland co., N.S.....	130
South Saskatchewan R., Assa.....	28
Spence's Bridge, Thompson R., B.C.....	131
Springhill, Cumberland co., N.S.....	28
Summerville, Hants co., N.S.....	130
Three-mile Plains, Hants co., N.S.....	130
Walton, Hants co., N.S.....	130
Wentworth, Hants co., N.S.....	130
Windsor, Hants co., N.S.....	28, 129, 131, 152

INDEX TO SUBJECTS—*Continued.*

H.

	Page
Halite,—see Salt, Common.	
Halotrichite	28
Harmotome	21
Heavy-spar,—see Barite.	
Heliotrope	146, 149
Hematite (see also under Micaceous iron ore and Specular iron), from :	
Acadia Mines, Colchester co., N.S.	73
Alvira Bay, L. Superior, Ont.	74
Amberst Isd., Magdalen Islands, Q.	73
Area 45 (Blanchards), Pictou co., N.S.	72
— 100 East River, Pictou co., N.S.	73
— 108 East River, Pictou co., N.S.	73
Bastard, tp. of, Leeds co., Ont.	74
Batchelwahrung Bay, dt. Algoma, Ont.	11
Beccagnimic River, Carleton co., N.B.	65, 73
Beckwith, tp. of, Lanark co., Ont.	73
Belmont, tp. of, Peterborough co., Ont.	74
Big Pond, Cape Breton co., N.S.	72
Black Island, Lake Winnipeg, Man.	65, 74
Blanchard area, Pictou co., N.S.	72
Breac Brook, East Bay, Cape Breton co., N.S.	72
Clarendon, tp. of, Pontiac co., Que.	73
Coffin, tp. of, dt. Algoma, Ont.	74
Dalhousie, tp. of, Lanark co., Ont.	65, 73
Darling, tp. of, Lanark co., Ont.	73
East River, Pictou co., N.S.	64, 73
Flagstaff Hill, Carleton co., N.B.	73
Gallas Point, Prince Edward Island.	72
Iron Island, L. Nipissing, Ont.	65, 74
Iron-ore Hill, Carleton co., N.B.	73
Jacksontown, Carleton co., N.B.	65, 73
Jacksonville, Carleton co., N.B.	73
Leeds, tp. of, Leeds co., Ont.	11, 65, 74
Little Gros Cap, L. Superior, Ont.	65, 74
Loch Lomond, Cape Breton co., N.S.	72
Loon Lake, dt. Thunder Bay, Ont.	74
Loran Beach, Cape Breton co., N.S.	72
McNab, tp. of, Renfrew co., Ont.	65, 74
McTavish, tp. of, dt. Thunder Bay, Ont.	65, 74
Madoc, tp. of, Hastings co., Ont.	65, 74
Marmora, tp. of, Hastings co., Ont.	74
Moody's Hill, Carleton co., N.B.	73
Nietaux River, Annapolis co., N.S.	65, 72
Oso, tp. of, Frontenac co., Ont.	74
Silver Lake, tp. McTavish, dt. Thunder Bay, Ont.	11, 74
South Canonto, tp. of, Frontenac co., Ont.	74

INDEX TO SUBJECTS—*Continued.*

	Page
Hematite, from :	
South Crosby, tp. of, Leeds co., Ont.....	74
Talon Chute, tp. Orlig, dt. Nipissing, Ont.....	74
Teny Cape, Hants co., N.S.....	72
West Flamorough, tp. of, Wentworth co., Ont.....	11
Whykokomagh, Cape Breton co., N.S.....	72
Hematite, brown,—see Limonite.	
Hematite, mineral associations of.....	82
— specimens illustrating the distribution of.....	72
— used as a pigment.....	133
Heulandite.....	21
Hisingerite.....	25
Hones,— see Whetston es.	
Hornblende.....	17, 31
Hornstone.....	149
Howlite.....	27
Huronite.....	15
Huronite, as an ornamental stone.....	148
Hyalite.....	11
Hypersthene.....	16, 164

I.

Iceland-spar.....	30
Idocrase, —see Vesuvianite.	
Ilmenite (titanic iron-ore), from :	
Bay St. Paul, Charlevoix co., Que.....	12, 64, 78
Brome, tp. of, Brome co., Que.....	64, 78
Chateau Richer, Montmorency co., Que.....	64, 78
Chegoggin Point, Yarmouth co., N.S.....	12
Rapid R., Bay of Seven Isds., Saguenay co., Que.....	64, 78
St. Irénée, Charlevoix co., Que.....	64, 78
St. Jérôme, Terrebonne co., Que.....	78
St. Julien, tp. of, Rawdon, Montcalm co., Que.....	78
St. Urbain, Bay St. Paul, Charlevoix co., Que.....	12, 64, 78
Sutton, tp. of, Brome co., Que.....	64, 78
Wexford, tp. of, Terrebonne co., Que.....	78
Ilvaite.....	20
Infusorial earth, from :	
Almonte, tp. Ramsay, Lanark co., Ont.....	161
Burrard Inlet, vicinity of, B.C.....	161
Folly Lake, Colchester co., N.S.....	161
Fountain Lake, Cumberland co., N.S.....	11, 161
Loon Lake, B.C.....	11
Merigonish, Pictou co., N.S.....	161
Petewahwa River, dt. Nipissing, Ont.....	161
Pollet River Lake, King's co., N.B.....	161

INDEX TO SUBJECTS—*Continued.*

	Page
Iron alum,—see Halotrichite.	
Iron, meteoric.	163
Iron, Minerals and ores of :	
Bog iron-ore.	12, 30, 66, 75
Chromic iron,—see Chromite.	
Chromite.	12, 56, 60, 164
Clay iron-stone.	14, 67, 77
Göthite.	12
Hematite.	11, 64, 72
Ilmenite.	12, 64, 78
Ilvaite.	20
Iron, Native.	6
— ochre.	131
— pyrites,—see Pyrite.	
— sand.	64, 72, 79
Linonite.	12, 30, 65, 75
Magnetic iron ore,—see Magnetite.	
Magnetic pyrites,—see Pyrrhotite.	
Magnetite.	12, 62, 67, 164
Marcasite.	8
Martite.	12
Melanterite.	28
Meteoric iron.	163
Micaceous iron ore.	12, 72
Pyrite.	8, 30, 56, 61
Pyrrhotite.	7, 54, 58
Siderite.	14, 67, 76
Spathic iron,—see Siderite.	
Specular iron ore.	11, 64, 72
Titanic iron ore,—see Ilmenite.	
Turgite.	12
Vivianite.	27
Iron, Native, St. Joseph Island, Lake Huron, Ont.	6
Iron ochres, from :	
Cap de la Magdeleine, Champlain co., Que.	131, 132
Carleton, Bonaventure co., Que.	131
Conestogo, Waterloo co., Ont.	132
Côte St. Charles, Vaudreuil co., Que.	131
Hull, tp. of, Ottawa co., Que.	132
Leslie, tp. of, Pontiac co., Que.	132
Nottawasaga, tp. of, Simcoe co., Ont.	132
Pointe du Lac, St. Maurice co., Que.	132
Pudsey's Point, Cumberland co., N.S.	131
Red Bank, Northumberland co., N.B.	131
Ste. Anne de Montmorenci, Montmorency co., Que.	132
Ste. Elizabeth, Joliette co., Que.	132

INDEX TO SUBJECTS—*Continued.*

	Page
Iron ochres, from :	
Ste. Marguerite, St. Maurice co., Que.....	132
Ste. Rose (Rosalie), Lanoraie, Joliette co., Que.....	132
Silver Creek, Harrison Lake, B.C.....	132, 133
Stanstead, tp. of, Stanstead co., Que.....	132
Walsingham, tp. of, Norfolk co., Ont.....	132
Iron ochres, pigments prepared from.....	131
Iron ochres, used as pigments.....	131
Iron pyrites,—see Pyrite.	
Iron pyrites, magnetic.—see Pyrrhotite.	
Iron sand, from :	
Amherst Isd., Magdalen Islands, Que.....	79
Batiscan, Champlain co., Que.....	64, 79
Bersimis, Saguenay co., Que.....	64, 79
Cape Commerell, Vancouver Isd., B.C.....	72
Hanlan Isd., Toronto Bay, York co., Ont.....	79
Little Whale River, east coast of Hudson Bay.....	79
Mingan, Saguenay co., Que.....	64, 79
Moisie, Saguenay co., Que.....	64, 79
Natashquan, Saguenay co., Que.....	64
Portneuf, Saguenay co., Que.....	64, 79
Iron-stone, clay,—see Clay iron-stone.	

J.

Jamesonite.....	9
Jasper.....	10, 30, 146, 147, 149
Jasper conglomerate.....	120, 163, 164
— block of, polished.....	164
— column of, polished.....	163
— slab of, polished.....	120
— vase of, polished.....	146
Jewellery, minerals applicable to,—see Minerals applicable to the fine arts and jewellery.	

K.

Kaolinite.....	25
Kaolinite, ordinary (common kaolin), from :	
Grande Frenière, county of Two Mountains, Que.....	25
Wentworth, Hants co., N.S.....	25, 139
Kermesite.....	8, 57
Kerosene,—see Petroleum.	

INDEX TO SUBJECTS—*Continued.*

L.

	Page
Labradorite.....	15, 146, 147, 149
— vase of, polished.....	146
— rock (as a building stone).....	113
Laumontite.....	21
Lazulite.....	27
Lead, ore of,—see Galenite.	
specimens illustrating distribution of.....	52
Lepidomelane.....	24
Lignite, from :	
Athabasca R., above Fort Assiniboine, Alta.....	98
Battle River, Alta.....	96
Blackfoot Crossing, Bow River, Alta.....	95
Black Mud R., nr. Edmonton, Alta.....	97
Blackwater Depot, Blackwater R., B.C.....	98
Bow River, Blackfoot Crossing, Alta.....	95
— Grassy Island, Alta.....	95
— Horse-shoe Bend, Alta.....	95
— at mouth of Highwood R., Alta.....	95
Bull Pound Creek, Alta.....	96
Burnt River, Peace River, Atha.....	98
Chin oo-kun-di Creek, Graham Isl., B.C.....	98
Coal Brook, Missinaibi R., dt. Algoma, Ont.....	94
— Pine River, B.C.....	98
Crowfoot Creek, Bow River, Alta.....	95
Cypress Hills, Assa.....	95
Dirt Hills, Assa.....	94
Devils Pine Creek, Alta.....	96
Egg Creek, N. Saskatchewan R., Alta.....	96
Fort George, Fraser River, B.C.....	98
Fraser River, Fort George, B.C.....	98
Grassy Island, Bow River, Alta.....	95
Great Valley, Assa.....	94
Hand Hills, Alta.....	96
Hay Flat, Wood Mountain, Assa.....	94
Horse-shoe Bend, Bow River, Alta.....	95
Irvine, half a mile south of, Assa.....	94
Knee Hills Creek, Alta.....	97
LaRoche Percée, Souris River, Assa.....	94
Little Bow River, Alta.....	95
Mackenzie River, N.W.T.....	98
Medicine Hat, S. Saskatchewan R., Assa.....	95
Meeting Creek, Battle River, Alta.....	96
Missinaibi River, dt. Algoma, Ont.....	93
Nicola and Coldwater Rivers, at junction of, B.C.....	98

INDEX TO SUBJECTS—*Continued.*

	Page
Lignite, from :	
North Saskatchewan R., Alta.	96, 97
— — above Edmonton, Alta.	97
— — below Ferry at Edmonton, Alta.	97
— — below mouth of the Brazeau, Alta.	98
— — between Rocky Mountain House and Edmonton, Alta.	97
— — near Conjuring Creek, Alta.	97
— — near Victoria, Alta.	97
Old Man River, Rye Grass Flat, Alta.	96
Pine River, Coal Brook, B.C.	98
Porcupine Creek, Assa.	94
Rat River, Rocky Mtns., N.W.T.	98
Red Deer River, Alta.	96, 97
— above Tail Creek, Alta.	97
— below Tail Creek, Alta.	97
— ridge W. of Bull Pound Ck., Alta.	96
Ross Coulée, Irvine, Assa.	94
Rye Grass Flat, Old Man River, Alta.	96
St. Mary River, Alta.	95
Saskatchewan R., see North and South Saskatchewan R.	
Scabby Butte, Alta.	95
Short Creek, Souris Valley, Assa.	94
Skon-un Point, Graham Isd., B.C.	98
Smoky R., below Little Smoky R., Atha.	98
Souris R., nr. LaRoche Percée, Assa.	94
— at Traders Road Crossing, Assa.	94
— nr. Wood-end Depot, Assa.	94
Souris Valley, Assa.	94
South Saskatchewan River, Assa.	95
Sullivan Lake, north of, Alta.	96
Swan River, Man.	94
The Maples, Battle River, Alta.	96
Turtle Mountain, Man.	94
Vermilion River, Alta.	97
White Mud River, Assa.	94
Willow Creek, Cypress Hills, Assa.	95
Ya-kan Point, Graham Island, B.C.	98
Lignite, ashes resulting from slow combustion of.	103
— material resulting from slow combustion of.	103
— shaly parting from seam of.	103
Lignitic coal, from :	
Belly River, at Coal Banks, Alta.	98
— below Coal Banks, Alta.	98
— below mouth of Little Bow R., Alta.	98
— at mouth of St. Mary R., Alta.	98

INDEX TO SUBJECTS—*Continued.*

	Page
Lignitic coal, from :	
Coal Banks, Belly River, Alta.....	98
Coal Gully, Nicola River, B.C.....	99
Elk River, Peace River dt., N.W.T.....	99
Indian Farm, S. of Pincher Ck., Old Man R., Alta.....	99
Lewes River, N.W.T.....	99
N. Saskatchewan R., at mouth of Clearwater, Alta.....	99
— below mouth of Clearwater, Alta.....	99
Pincher Creek, Old Man River, Alta.....	99
Red Deer River, nr. outer edge of Foot Hills, Alta.....	99
Wapiti River, Peace River district, N.W.T.....	99
Lignitified wood, Swan River, Man.....	93
Lime, common, prepared from limestone from :	
Cayuga, Haldimand co., Ont.....	128
Colborne, tp. of, Huron co., Ont.....	128
Dudswell, tp. of, Wolfe co., Que.....	127
Dundas, Wentworth co., Ont.....	128
Eramosa, tp. of, Wellington co., Ont.....	128
Galt, Waterloo co., Ont.....	128
Guelph, Wellington co., Ont.....	128
Horton, tp. of, Renfrew co., Ont.....	128
Hull, Ottawa co., Que.....	127
Kincardine, Bruce co., Ont.....	128
Lanark, tp. of, Lanark co., Ont.....	128
Limehouse, Halton co., Ont.....	128
McNab, tp. of, Renfrew co., Ont.....	128
Montreal, Hochelaga co., Que.....	127
Pugwash, Cumberland co., N.S.....	127
Ramsay, tp. of, Lanark co., Ont.....	127, 128
Ross, tp. of, Renfrew co., Ont.....	128
St. Armand, Missisquoi co., Que.....	127
St. John's, St. John's co., Que.....	127
St. Mary's, Perth co., Ont.....	128
Walkerton, Bruce co., Ont.....	128
Lime, hydraulic,—see Cement, hydraulic.	
Limestone, as a building stone (see also Marbles), from :	
Barrie, tp. of, Frontenac co., Ont.....	109
Bellville, tp. Thurlow, Hastings co., Ont.....	109
Bridgewater, tp. Elzevir, Hastings co., Ont.....	109
Caughnawaga, Laprairie co., Que.....	108
Deschambault, Portneuf co., Que.....	107
Dudswell, tp. of, Wolfe co., Que.....	107
Gloucester, tp. of, Carleton co., Ont.....	108
Grenville, tp. of, Argenteuil co., Que.....	108
Hawkesbury East, tp. of, Prescott co., Ont.....	108
Hog Lake, tp. Huntingdon, Hastings co., Ont.....	109

INDEX TO SUBJECTS—*Continued.*

	Page
Limestone, as a building stone (see also Marbles), from :	
Horton, tp. of, Renfrew co., Ont.	109
Hull, tp. of, Ottawa co., Que.	108
Joliette, Joliette co., Que.	107
Kingston, Frontenac co., Ont.	109
La Chevrotière, Portneuf co., Que.	107
Lachute, Argenteuil co., Que.	108
Lake Manitoba, Man.	109
Lanark, tp. of, Lanark co., Ont.	108
McNab, tp. of, Renfrew co., Ont.	108
Madawaska R., tp. Blythfield, Renfrew co., Ont.	109
Madoc, tp. of, Hastings co., Ont.	109
Marmora, tp. of, Hastings co., Ont.	109
Metlah-Catlah Bay, B.C.	109
Mistassini R., Chicoutimi co., Que.	107
Montreal, Hochelaga co., Que.	108
Mount Mark, Vancouver Isd., B.C.	109
Parrsborough, Cumberland co., N.S.	107
Pointe aux Trembles, Portneuf co., Que.	107
Pointe Claire, Jacques Cartier co., Que.	107
Portage du Fort, Pontiac co., Que.	108
Ramsay, tp. of, Lanark co., Ont.	108
Ross, tp. of, Renfrew co., Ont.	108
St. Armand, Missisquoi co., Que.	108
St. Dominique, Soulanges, Que.	108
St. John's, St. John's co., Que.	108
St. Lin, L'Assomption co., Que.	107
St. Mary's, Perth co., Ont.	109
Texada Isd., Strait of Georgia, B.C.	109
Wolfe Isd., River St. Lawrence, Frontenac co., Ont.	107
Limestone, used for making lime,—see Lime, common.	
Limestone, columns of, polished.	163
Limestone conglomerate.	109, 148
Limonite (brown hematite), from :	
Acadia Mines, Colchester co., N.S.	12, 65, 66, 75
Area 46, East River, Pictou co., N.S.	75
Area 105, East River, Pictou co., N.S.	75
Ascot, tp. of, Sherbrooke co., Que.	76
Bastard, tp. of, Leeds co., Ont.	76
Brandon Hills, Man.	76
Brookfield, Colchester co., N.S.	66, 75
Cape Enragé, Albert co., N.B.	75
Côte St. Charles, Vaudreuil co., Que.	76
Cumberland Brook, Colchester co., N.S.	65, 66, 75
East River, Pictou co., N.S.	66, 75
Fraser-Saddler area, Pictou co., N.S.	75

INDEX TO SUBJECTS—Continued.

	Page
Limonite (brown hematite), from :	
Green Island, Temiscouata co., Que.....	75
Indian Reserve, Inverness co., N.S.....	75
Ireland, tp. of, Megantic co., Que.....	76
Kildare, tp. of, Joliette co., Que.....	75
Lake Aylmer Road, Wolfe co., Que.....	76
L'Acadie, St. John's co., Que.....	75
Londonderry, Colchester co., N.S.....	65, 66, 75
Martin's Brook, Colchester co., N.S.....	75
Montreal River, dt. Nipissing, Ont.....	76
Ste. Angélique, Vaudreuil co., Que.....	76
St. Etienne, St. Maurice co., Que.....	75
St. Félix, Champlain co., Que.....	75
St. François, Beauce co., Que.....	76
St. Maurice Forges, St. Maurice co., Que.....	75
Ste. Rose (Rosalie), Lanoraie, Joliette co., Que.....	75
St. Vallier, Bellechasse co., Que.....	75
Simpson, tp. of, Drummond co., Que.....	75
Springville, East River, Pictou co., N.S.....	66
Stanbridge, tp. of, Missisquoi co., Que.....	76
Thamesville, Kent co., Ont.....	76
Upper Rocky Point, tp. Eardley, Ottawa co., Que.....	76
Limonite, mineral associations of.....	83
Limonite, specimens illustrating the distribution of.....	75
Lithographic stone, from :	
Brant, tp. of, Bruce co., Ont.....	149
Harvey, tp. of, Peterborough co., Ont.....	149
Inverhuron, tp. Bruce, Bruce co., Ont.....	149
Marmora, tp. of, Hastings co., Ont.....	148
Lithographic stone, vase of.....	146

M.

Magnesia alba, prepared from magnesite from Bolton.....	134
Magnesite (native carbonate of magnesia), from :	
Bolton, tp. of, Brome co., Que.....	14, 134
Sutton, tp. of, Brome co., Que.....	134
Magnetic iron-ore,—see Magnetite.	
Magnetic pyrites,—see Pyrrhotite.	
Magnetite (magnetic iron-ore. See also Iron sand), from :—	
Ascot, tp. of, Sherbrooke co., Que.....	63, 68
Atic-okan River, dt. Rainy River, Ont.....	64, 71
Bagot, tp. of, Renfrew co., Ont.....	69
Barrie, tp. of, Frontenac co., Ont.....	63, 70
Batchewahung Bay, L. Superior, Ont.....	64
Bathurst, tp. of, Lanark, Ont.....	12

INDEX TO SUBJECTS—*Continued.*

	Page
Magnetite, from :	
Bear River, Annapolis co., N.S.	68
Bedford, tp. of, Frontenac co., Ont.	69
Belmont, tp. of, Frontenac co., Ont.	63, 71
Big Turtle River, dt. Rainy River, Ont.	71
Blairton, tp. Belmont, Peterborough co., Ont.	63, 71
Bolton, tp. of, Brome co., Que.	68
Bristol, tp. of, Pontiac co., Que.	63, 68
Cameron, Ottawa co., Que.	73
Cape Commerell, Vancouver Isl., B.C.	72
Cherry Bluff, Kamloops Lake, B.C.	64
Clementsport, Annapolis co., N.S.	68
Clementsvale, Annapolis co., N.S.	62, 68
Cleveland, Annapolis co., N.S.	62
Crow Lake, Hastings co., Ont.	70
Deer Island, Passamaquoddy Bay, N.B.	68
Digby, Digby co., N.S.	68
Dungannon, tp. of, Hastings co., Ont.	63
Eagle Lake, Frontenac co., Ont.	69
Economy, Colchester co., N.S.	62
Escott, tp. of, Leeds co., Ont.	63
Fitzroy, tp. of, Carleton co., Ont.	63
Galway tp. of, Peterborough co., Ont.	63, 64, 71
Gillies Bay, Texada Island, B.C.	64, 72
Grandison, Argenteuil co., Que.	164
Greenwater Lake, dt. Thunder Bay, Ont.	71
Grenville, tp. of, Argenteuil co., Que.	63
Gun-flint Lake, dt. Thunder Bay, Ont.	71
Harriet Hbr., Skincuttle Inlet, B.C.	64
Hill Isd., River St. Lawrence, Leeds co., Ont.	69
Hope, Fraser River, B.C.	71
Hull, tp. of., Ottawa co., Que.	63, 68
Huntley, tp. of, Carleton co., Ont.	69
Inverness, tp. of, Megantic co., Que.	68
Island in the Walker Group, B.C.	64, 72
Killarney, Georgian Bay, L. Huron, Ont.	64
Kinnear's Mills, Megantic co., Que.	68
Knight Inlet, mainland of B.C.	71
Kootanie River, B.C.	71
Lavant, tp. of, Lanark co., Ont.	69
Leeds, tp. of, Megantic, Que.	62, 63, 68
Litchfield, tp. of, Pontiac co., Que.	68
Little Gull Lake, dt. Thunder Bay, Ont.	71
Long Island, Cape Breton co., N.S.	67
Lutterworth, tp. of, Haliburton co., Ont.	71
Madoc, tp. of, Hastings co., Ont.	12, 63, 70, 164

INDEX TO SUBJECTS—*Continued.*

	Page
Magnetite, from :	
Magnetite Island, Knee L., dt. Keewatin, Ont.....	71
Marmora, tp. of, Hastings co., Ont.....	70
Millstream, Gloucester co., N.B.....	68
Mount Hanly, Annapolis co., N.S.....	12, 67
Mulgrave, tp. of, Ottawa co., Que.....	68
Nicoamen, Thompson River, B.C.....	71
Nictaux River, Annapolis co., N.S.....	68
North Burgess, tp. of, Lanark co., Ont.....	69
North Crosby, tp. of, Lanark co., Ont.....	69
North Mountain, Annapolis co., N.S.....	12, 67
Norway Lake, Renfrew co., Ont.....	69
Olden, tp. of, Frontenac co., Ont.....	69
Palmerston, tp. of, Frontenac co., Ont.....	69
Pentecost River, Saguenay co., Que.....	68
Pine Creek, Waterton River, Alta.....	71
Portage du Fort, Pontiac co., Que.....	12
Portland, tp. of, Ottawa co., Que.....	63
Rivers Inlet, mainland of B.C.....	71
Rivière Quinze, Pontiac co., Que.....	68
Rolph, tp. of, Renfrew co., Ont.....	69
Ross, tp. of, Renfrew co., Ont.....	63
St. François, tp. Vaudreuil, Beauce co., Que.....	62
St. Jérôme, Terrebonne co., Que.....	68
Seine River, dt. Rainy River, Ont.....	71
Snowdon, tp. of, Haliburton co., Ont.....	71
Sooke, Vancouver Island, B.C.....	72
South Crosby, tp. of, Leeds co., Ont.....	63
South Ham, tp. of, Wolfe co., Que.....	63
South Sherbrooke, tp. of, Lanark co., Ont.....	63, 69
Stafford, tp. of, Renfrew co., Ont.....	69
Sutton, tp. of, Brome co., Que.....	12, 63
Swamp Lake, Peterborough co., Ont.....	71
Texada Isd., Strait of Georgia, B.C.....	64, 72
Thirty Island Lake, Frontenac co., Ont.....	63, 69
Torbolton, tp. of, Carleton co., Ont.....	68
Tudor, tp. of, Hastings co., Ont.....	70
Wakefield, tp. of, Ottawa co., Que.....	63
Watkinson's, Fraser River, B.C.....	71
Wollaston, tp. of, Hastings co., Ont.....	63, 70, 71
Wright, tp. of, Ottawa co., Que.....	68
Magnetite, mineral associations of.....	79, 80
Magnetite, specimens illustrating the distribution of.....	67
Magnetite, titaniferous, (see also Ilmenite), from :	
Bathurst, tp. of, Lanark co., Ont.....	79
Fitzroy, tp. of, Carleton co., Ont.....	79

INDEX TO SUBJECTS—Continued.

	Page
Magnetite, titaniferous, from :	
St. François, Beauce co., Que.....	79
Shawenegan, St. Maurice co., Que.....	79
Silver Lake, tp. South Sherbrooke, Lanark co., Ont.....	79
South Crosby, tp. of, Lanark co., Ont.....	79
Malachite.....	14
Maltha,—see Mineral tar.	
Manganese, Minerals and ores of :	
Bog manganese.....	61, 62
Manganite.....	12, 61, 62
Psilomelane.....	13, 61, 62
Pyrolusite.....	12, 61, 62
Manganese ore, specimens illustrating the distribution of.....	61
Manganiferous conglomerate.....	62
Manganite, from :	
Amherst Isd., Magdalen Islands, Que.....	62
Black Rock, Clifton, Colchester co., N.S.....	62
Grindstone Isd., Magdalen Islands, Que.....	61, 62
Markhamville, King's co., N.B.....	61, 62
Teny Cape, Hants co., N.S.....	12, 61
Walton, Hants co., N.S.....	61, 62
West Quaco, St. John co., N.B.....	61
Marble (limestone. Slabs, cut and polished), from :	
Arnprior, tp. McNab, Renfrew co., Ont.....	115, 163
Barrie, tp. of, Frontenac co., Ont.....	117, 163
Beaver Cove, Vancouver Island, B.C.....	115
Bras d'Or Lake, Cape Breton co., N.S.....	115
Caughnawaga, Laprairie co., Que.....	114, 118
Cornwall, Stormont co., Ont.....	114, 116
Departure Bay, Vancouver Isd., B.C.....	116
Dudswell, tp. of, Wolfe co., Que.....	114, 115, 116, 117, 118, 163
Durham, tp. of, Drummond co., Que.....	117
Elzevir, tp. of, Hastings co., Ont.....	114, 116
Esquimaux Island, Mingan, Que.....	114
Gloucester, tp. of, Carleton co., Ont.....	114
Grenville, tp. of, Argenteuil co., Que.....	115, 116, 117
Horton, tp. of, Renfrew co., Que.....	114
Hull, tp. of, Ottawa co., Que.....	117, 118
Kingsey, tp. of, Drummond co., Que.....	117
Lanark, tp. of, Lanark co., Ont.....	117, 118
Large Island, Seigniory of Mingan, Que.....	116
L'Orignal, Prescott co., Ont.....	114, 117
Madoc, tp. of, Hastings co., Ont.....	118
Montreal, Hochelaga co., Que.....	114, 115
Pakenham, tp. of, Lanark co., Ont.....	115
Pointe Claire, Jacques Cartier co., Que.....	114, 116, 117, 118

INDEX TO SUBJECTS—*Continued.*

	Page
Marble, from :	
St. Armand, Missisquoi co., Que.....	114, 115, 116, 117
St. Dominique, Soulanges co., Que.....	117
St. Joseph, Beauce co., Que.....	117, 118, 163
St. Lin, L'Assomption co., Que.....	118
Shipton, tp. of, Richmond co., Que.....	116, 117
Terrebonne, Terrebonne co., Que.....	117
Texada Island, Strait of Georgia, B.C.....	115
Marble (serpentine. Slabs, cut and polished), from :	
Melbourne, tp. of, Richmond co., Que.....	118, 119, 163
Orford, tp. of, Sherbrooke co., Que.....	118, 119, 120, 163
Reindeer Lake, N.W.T.....	113
Shipton, tp. of, Richmond co., Que.....	119
South Ham, tp. of, Wolfe co., Que.....	119
Marcasite	8
Marl, from :	
Belleville, tp. Thurlow, Hastings co., Ont.....	152
Bentinck, tp. of, Grey co., Ont.....	153
Calumet, tp. of, Pontiac co., Que.....	152
Carrick, tp. of, Bruce co., Ont.....	153
Cypress Hills, Assa.....	153
Hull, tp. of, Ottawa co., Que.....	152
Marl Lake, Island of Anticosti, Que.....	152
Montreal, Hochelaga co., Que.....	152
Nepean, tp. of, Carleton co., Ont.....	152
River St. Pierre, Hochelaga co., Que.....	152
Rockwood, Eramosa, Wellington co., Ont.....	153
St. Armand, Missisquoi co., Que.....	152
Ste. Rose, Laval co., Que.....	152
Sheffield, tp. of, Addington co., Ont.....	152
Stanstead, tp. of, Stanstead co., Que.....	152
Storrington, tp. of, Frontenac co., Ont.....	152
Thornberry, Hochelaga co., Que.....	152
West Hawkesbury, tp. of, Prescott co., Ont.....	152
White Mud River, Assa.....	153
Marl, arenaceous, used for making bath-brick.....	162
Marmolite.....	25
Martite.....	12
Matte from roasted nickeliferous pyrrhotite.....	55
Melanterite.....	28
Menaccanite,—see Ilmenite.....	
Meneghinite.....	9
Mercury, Minerals and ores of :	
Cinnabar.....	7, 30
Mercury, Native.....	6
Metacinnabarite.....	7

INDEX TO SUBJECTS—*Continued.*

	Page
Mercury, Native, Seshart Channel, Barclay Sound, V.I., B.C.	6
Metacinnabarite, Read Island, Vancouver Isd., B.C.	7
Metals and their ores :	
Antimony ores	54, 57
Bismuth ores	58
Cobalt ores	8
Copper ores	83, 86
Gold ores	37
Iron ores	62, 67
Lead ores	50, 52
Mercury ores	6, 7, 30
Nickel ores	54, 58
Platinum ores	6, 8
Silver ores	41, 48, 49, 50, 52
Zinc ores	55, 59
Meteoric iron	163
Mica :	
Biotite	23, 32, 34, 141
Chromiferous	23
Lepidomelane	24
Muscovite	22, 141
Phlogopite	23, 32, 141
Mica, with mineral inclusions	22, 23, 24, 32
Mica-slate, suitable for whetstones (see also Whetstones), from :	
Potton, tp. of, Brome co., Que.	161
Shipton, tp. of, Richmond co., Que.	161
Micaceous iron-ore, from :	
Borrowdale, Richmond co., N.S.	72
Cameron's Mill, Guysborough co., N.S.	72
Gairloch Mountain, Victoria co., N.S.	72
Madoc, tp. of, Hastings co., Ont.	74
Robinson Cove, Richmond co., N.S.	72
St. Armand, East, tp. of, Missisquoi co., N.S.	73
Stewart's Pond, Guysborough co., N.S.	72
Sutton, tp. of, Brome co., Que.	12
Michel-Lévyte	27
Microcline	15, 139, 150
Millerite, Orford, tp. of, Sherbrooke co., Que.	7, 30, 54, 58
Millstones, material suitable for	161
Mineral associations of :	
Apatite	155
Graphite	137
Hematite	82
Limonite	83
Magnetite	79
Mineral charcoal	29

INDEX TO SUBJECTS—*Continued.*

	Page
Mineral coal,—see Coal.	
Mineral oil,—see Petroleum.	
pigments, prepared	132, 133
Mineral resin, from :	
Cedar Lake, Saskatchewan dt., N.W.T.....	29
Gaspé Basin, Gaspé Co., Que.....	29
Hat Ck., nr. Marble Cañon, B.C.....	29
Old Man River, Middle Fork of, Alta.....	29
Mineral tar, from :	
Athabasca River, N.W.T.....	29, 105
Great Slave L., N. shore of, N.W.T.....	105
Tar Island, Peace River, N.W.T.....	105
White Mud River, Peace River, N.W.T.....	105
Mineral water, from :	
Alfred, Prescott co., Ont.....	144
Ancaster, Wentworth co., Ont.....	143, 144
Baie du Febvre, Nicolet co., Que.....	144
Bay St. Paul, Charlevoix co., Que.....	143
Belœil, Verchères co., Que.....	144
Berthier, Berthier co., Que.....	144
Brant, Bruce co., Ont.....	145
Caledonia, Prescott co., Ont.....	144
Caxton, St. Maurice co., Que.....	143
Chambly, Chambly co., Que.....	144
Charlottetown, Norfolk co., Ont.....	145
Chippewa, Welland co., Ont.....	145
Eastman's Springs, Carleton co., Ont.....	143, 144
Fitzroy, Carleton co., Ont.....	144
Gloucester, Carleton co., Ont.....	143, 144
Hallowell, Prince Edward co., Ont.....	143
Hamilton, Wentworth co., Ont.....	145
Hawkesbury, Prescott co., Ont.....	144
Henryville, Iberville co., Que.....	144
Kingston, Frontenac co., Ont.....	143
Lanoraie, Berthier co., Que.....	144
Marcotte's Mills, Portneuf co., Que.....	144
Méthot's Mills, Lotbinière co., Que.....	144
Niagara, Lincoln co., Ont.....	145
Nicolet, Nicolet co., Que.....	144
Pike River, Sabrevois, Iberville co., Que.....	145
Plantagenet, Prescott co., Ont.....	144
Point-du-jour, L'Assomption co., Que.....	144
Rawdon, Montcalm co., Que.....	144
Rivière Ouelle, Kamouraska co., Que.....	143
St. Catharines, Lincoln co., Ont.....	144
Ste. Geneviève, Champlain co., Que.....	143

INDEX TO SUBJECTS—*Continued.*

	Page
Mineral water, from :	
St. Hyacinthe, St. Hyacinthe co., Que.....	144
St. Léon, Maskinongé co., Que.....	143
St. Ours, Richelieu co., Que.....	144
Tuscarora, Brant co., Ont.....	145
Varenes, Verchères co., Que.....	144
Whitby, Ontario co., Ont.....	143
Minerals, economic, collection of.....	35
Minerals, systematic, collection of.....	3
Minerals applicable to certain chemical manufactures.....	92
Apatite.....	150
Arsenopyrite.....	56, 57
Celestite.....	134
Chromic iron.....	56, 60
Iron pyrites.....	56, 61
Magnesite.....	134
Manganese ores.....	61, 62
Molybdenite.....	56, 60
Scheelite.....	28, 33
Minerals applicable to common and decorative construction.....	106
Cement-stones.....	128
Clays.....	122
Dolomites.....	110
Gneisses.....	113
Granites.....	112
Gypsum.....	129
Labradorite rock.....	113
Limestones.....	107, 127
Marbles, limestone and serpentine.....	114
Roofing slates.....	106
Sandstones.....	111
Serpentine.....	113
Syenites.....	113
Trap rock.....	113
Minerals applicable to the fine arts and jewellery.....	145
Minerals employed as fertilizers.....	150
Apatite.....	150
Gypsum.....	152
Marls.....	152
Phosphatic rock.....	152
Minerals employed for grinding and polishing.....	160
Infusorial earth.....	161
Marls, arenaceous and calcareous.....	152, 162
Mica-slates.....	161
Sandstones.....	160, 161
Silicious sand.....	162
Silicious silt.....	162

INDEX TO SUBJECTS—*Continued.*

	Page
Minerals of miscellaneous application	162
Felspar, for manufacture of procelain	139
Moulding sand	162
Quartz, quartz sand and sandstone for glass-making	162
Soap clay, employed as a detergent	162
Minerals used in the production of light and heat	93
Albertite	104
Anthracite	102
Bituminous shale	105
Coal	99, 103
Lignite	93
Peat	93
Petroleum	105
Minerals used as pigments	131
Barytes	133
Calcareous marl	152
Clay	133
Ferruginous dolomite	133
Ferruginous clay	133
Iron ochres	131
Steatite	134
Minerals used for resisting fire	134
Asbestos	138, 140
Fire-clay	139
Graphite	134, 136
Mica	141
Potstone	139
Sandstone	139
Soapstone	139
Mispickel,—see Arsenopyrite.	
Molybdenite, from :	
Aldfield, tp. of, Pontiac co., Que.	6, 60
Alleyn, tp. of, Pontiac co., Que.	60
Bagot, tp. of, Bagot co., Que.	60
Chegoggin Point, Yarmouth co., N.S.	60
Cortés Island, Strait of Georgia, B.C.	61
Eardley, tp. of, Ottawa co., Que.	60
Harvey Hill, tp. Leeds, Megantic co., Que.	6, 56, 60
Hull, tp. of, Ottawa co., Que.	60
Leeds, tp. of, Megantic co., Que.	6, 56, 60
Lillooet R., vic. of New Westminster	61
Miramichi, Northumberland co., N.B.	60
North Crosby, tp. of, Leeds co., Ont.	60
North River, Victoria co., N.S.	60
Portage de Ste. Geneviève, Champlain co., Que.	60
Ross, tp. of, Renfrew co., Ont.	6, 56, 60

INDEX TO SUBJECTS—*Continued.*

	Page
Molybdenite, from :	
St. Ann's, Victoria co., N.S.	60
St. Jérôme, Terrebonne co., Que.	60
Spuzzum Creek, Fraser River, B.C.	61
Terrace Bay, Lake Superior, Ont.	60
Texada Island, Strait of Georgia, B.C.	61
Molybdenum ore, specimens illustrating the distribution of.	60
Molybdic ochre,—see Molybdite.	
Molybdite.	11
Monazite.	26
Morenosite.	28
Mosaics.	146
Moss agate.	149, 150
Moulding sand,—see under Sand.	
Mountain cork.	17, 34
Mountain leather.	17
Muscovite, from :	
Canoe and Coldwater Rivers, at junction of, B.C.	141
Clinton, north-east of, B.C.	141
Masham, tp. of, Ottawa co., Que.	23
Mattawa, dt. Nipissing, Ont.	23
Miller, tp. of, Frontenac co., Ont.	23, 141
Skuzzy Creek, Fraser River, B.C.	141
Villeneuve, tp. of, Ottawa co., Que.	22, 141
Yeo's Island, Upper St. Maurice River, Que.	23
Muscovite, with mineral inclusions.	22, 23

N.

Nail-head spar.	14, 30, 167
Native antimony.	5, 54, 57
— arsenic.	5
— copper.	5, 83, 86
— gold.	5, 39
— iron.	6, 163
— mercury.	6
— platinum.	6
— silver.	5, 48, 49
Natrolite.	22, 32
Nephrite.	17, 146
Nicolite, from :	
Denison, tp. of, dt. Algoma, Ont.	7
McGregor, tp. of, dt. Thunder Bay, Ont.	7
Nickeliferous iron sulphide, Lake Huron, Ont.	55, 59
Nickeliferous pyrrhotite,—see Pyrrhotite, nickeliferous.	

INDEX TO SUBJECTS—*Continued.*

	Page
Petroleum, crude, from :	
St. Joseph, Dorchester, Westmoreland co., N.B.....	105
Silver Brook, branch of, Gaspé co., Que.....	105
South Kootanie Pass, Rocky Mtns., dt. Alberta, N.W.T.....	106
— Rocky Mtns., B.C.....	106
Tilsonburg, tp. Dereham, Oxford co., Ont.....	105
Petroleum, altered, in trap, Tar Pt., Gaspé co., Que.....	105
bearing fossiliferous limestone, Bertie, Ont.....	105
distilled from bituminous shale of Kettle Pt., Ont.....	106
products obtained from :	
Benzine; illuminating oils; lubricating oils; paraffine :	
coke.....	105
Phenomenal geology, specimens illustrating.....	167
Phlogopite, from :	
Aylwin, tp. of, Ottawa co., Que.....	141
Calumet Island, Pontiac co., Que.....	24
Cawood, tp. of, Pontiac co., Que.....	141
Grenville, tp. of, Argenteuil co., Que.....	23, 32, 141
Hudson Strait, N. shore of, Baffin Land.....	141
Hull, tp. of, Ottawa co., Que.....	23, 141
Masham, tp. of, Ottawa co., Que.....	141
North Burgess, tp. of, Lanark co., Ont.....	24, 141
Otty L., tp. North Burgess, Lanark co., Ont.....	24
Portland, tp. of, Ottawa co., Que.....	32, 141
South Burgess, tp. of, Leeds co., Ont.....	141
Templeton, tp. of, Ottawa co., Que.....	32, 141
Wakefield, tp. of, Ottawa co., Que.....	23, 24, 32
Phlogopite, with mineral inclusions.....	23, 24, 32
Pholerite.....	25
Phosphate mineral and ore.	
Apatite.....	150
Phosphatic rock.....	152
Phosphatic rock, from :	
Macintosh Brook, Cape Breton co., N.S.....	152
Rivière Ouelle, Kamouraska co., Que.....	152
Wilson River, Man.....	152
Picrolite.....	25, 33
Pigments, Minerals used as.....	131
Pigments, mineral, prepared.....	132, 133
Placer gold (alluvial gold), from :	
Chaudière River, Beauce co., Que.....	5, 40, 41
Chaussegros, Vaudreuil, Beauce co., Que.....	40
Cherry Creek, Upper, B.C.....	5
DeLery, Vaudreuil, Beauce co., Que.....	39
Devils Rapids, Chaudière R., Beauce, co. Que.....	40
Dudswell Road, Sherbrooke co., Que.....	41

INDEX TO SUBJECTS—*Continued.*

	Page
Placer gold, from :	
Famine River, tp. Watford, Dorchester co., Que.....	40
Gilbert River, Vaudreuil, Beauce co., Que.....	39, 40
Jersey Point, Rivière du Loup, Beauce co., Que.....	40
Keithly Creek, Cariboo, B.C.....	5
Kempt stream, Beauce co., Que.....	40
Lake Archer, Dorchester co., Que.....	40
Loubier Ck., St. François, Vaudreuil, Beauce co., Que.....	40
Magog River, Sherbrooke co., Que.....	41
Mosquito Ck., Cariboo, B.C.....	5
Omenica, B.C.....	41
Pozer's stream, tp. Shenly, Beauce co., Que.....	40
River Oliva, Beauce co., Que.....	40
-- St. Francis, tp. Dudswell, Wolfe co., Que.....	41
Samson, Beauce co., Que.....	40
Rivière des Plantes, Vaudreuil co., Que.....	40
-- du Bras, Beauce co., Que.....	40
-- du Loup, Beauce co., Que.....	40
-- Grande Coudée, Beauce co., Que.....	40
Ruisseau St. Henry, Beauce co., Que.....	40
St. Charles, Vaudreuil, Beauce co., Que.....	39
St. François, Vaudreuil, Beauce co., Que.....	40
St. George, Aubert-Gallion, Beauce co., Que.....	40
Ste. Marie, St. Joseph, Beauce co., Que.....	40
Touffe des Pins, Chaudière R., Beauce co., Que.....	39, 40
Travellers' Rest River, Beauce co., Que.....	40
Trout River, Jersey, Beauce co., Que.....	40
Plaster-of-Paris, prepared from gypsum from :	
Beaver Brook, Colchester co., N.S.....	130
Mount Healy, Haldimand co., Ont.....	131
Windsor, Hants co., N.S.....	129
Platinum, Native, from :	
Granite Creek, Tulameen River, B.C.....	6
North Saskatchewan River, Alta.....	6
Similkameen River, B.C.....	6
Plumbago,—see Graphite.	
Polishing, minerals used for,—see under Minerals employed for grinding and polishing.	
Polydymite, Denison, tp. of, dt. Algoma, Ont.....	7
Porcellanite.....	146, 150
Porcellophite.....	24
Porphyritic boulder.....	164
Porphyry, as an ornamental stone, from :	
Chatham, tp. of, Argenteuil co., Que.....	147
Grenville, tp. of, Argenteuil co., Que.....	147, 150
Lake Superior (Desbarat's location), Ont.....	147

INDEX TO SUBJECTS—*Continued.*

	Page
Porphyry, from :	
Onaping, nr. to, dt. Nipissing, Ont.....	150
Potstone (compact chlorite), from :	
Bolton, tp. of, Brome co., Que.....	139
Broughton, tp. of, Brome co., Que.....	139
Potstone, dish and vase, made of.....	139, 146
Pottery clays—clay used as such, from :	
London, Middlesex co., Ont.....	126
Montreal, Hochelaga co., Que.....	123
St. John's, St. John's co., Que.....	123
Prase.....	10, 145
Prehnite.....	20, 32
Pseudomorphous quartz.....	11
Psilomelane, Gowland Mtn., Albert co., N.B.....	13, 61, 62
Purple copper ore,—see Bornite.	
Pyralolite.....	25, 33
Pyrite (iron pyrites), from :	
Alfred, tp. of, Prescott co., Ont.....	61
Ascot, tp. of, Sherbrooke co., Que.....	8
Buckingham, tp. of, Ottawa co., Que.....	30
Cape Chatte, Gaspé co., Que.....	8
Dalhousie, tp. of, Lanark co., Ont.....	61
Darling, tp. of, Lanark co., Ont.....	57, 61
Devil's Lake, tp. Bedford, Frontenac co., Ont.....	8
Eckstall Inlet, Skeena River, B.C.....	8, 57, 61
Elizabethtown, tp. of, Leeds co., Ont.....	8, 57, 61
Flint Island, Hudson Bay.....	8
Garthby, tp. of, Wolfe co., Que.....	56
Grand Michin, Rimouski co., Que.....	8
Hudson Bay, north-west shore of.....	57, 61
Peace River, N.W.T.....	8
Quebec, Quebec co., Que.....	8
Swan Creek, Cumberland co., N.S.....	8
Wakefield, tp. of, Ottawa co., Que.....	8
Pyrites, arsenical,—see Arsenopyrite.	
— copper,—see Chalcopyrite.	
— iron,—see Pyrite.	
— magnetic,—see Pyrrhotite.	
Pyrolusite, from :	
Loch Lomond, Cape Breton co., N.S.....	61, 62
Markhamville, King's co., N.B.....	12
Teny Cape, Hants co., N.S.....	12, 61, 62
Walton, Hants co., N.S.....	12
Wasson's Bluff, Two Islands, Colchester co., N.S.....	61, 62
Pyroxene.....	16, 31
Pyrrhotite.....	7, 54, 58

INDEX TO SUBJECTS—*Continued.*

	Page
Pyrrhotite, nickeliferous, from :	
Blezard, tp. of, dt. Nipissing, Ont.	58
Broder, tp. of, dt. Nipissing, Ont.	58
Clarendon, tp. of, Pontiac co., Que.	58
Denison, tp. of, dt. Algoma, Ont.	58
Drury, tp. of, dt. Algoma, Ont.	54, 59
Jackfish Bay, Lake Superior, Ont.	55
L'Etete, Charlotte co., N.B.	58
Levack, tp. of, dt. Algoma, Ont.	59
Lorne, tp. of, dt. Algoma, Ont.	54, 59
McKim, tp. of, dt. Nipissing, Ont.	54, 55, 58
Milltown, St. Stephen, Charlotte co., N.B.	58
Nairn, tp. of, dt. Algoma, Ont.	59
Neelon, tp. of, dt. Nipissing, Ont.	58
St. Stephen, Charlotte co., N.B.	7, 54, 58
Snider, tp. of, dt. Algoma, Ont.	55

Q.

Quartz.	9, 10
Quartz, varieties of :	
Agate.	10, 145, 149
Amethystine.	10, 30, 34, 145, 146, 147, 149, 164
Asteriated.	149
Banded.	150
Carnelian.	146
Chalcedony.	10
Heliotrope.	146, 149
Hornstone.	149
Jasper.	10, 30, 146, 147, 149
Prase.	10, 145
Pseudomorphous.	11
Quartz gold,—see Auriferous quartz.	
— suitable for glass-making.	162
— tailings, for fire-brick.	139
Quicksilver,—see Mercury, native.	

R.

Raphilite.	17
Refractory (fire resisting) materials :	
Asbestos.	138, 140
Fire-clay.	139
Graphite.	134, 136
Mica.	141

INDEX TO SUBJECTS—*Continued.*

	Page
Refractory (fire resisting) materials :	
Potstone.....	139
Sandstone.....	139
Soapstone.....	139
Rensselaerite.....	25, 148
Retinite.....	29, 150
Ripidolite.....	24
Rocks, Archæan and Palæozoic, specimens of, cut and polished.....	120
— Laurentian, in which details of structure are rendered apparent by weathering.....	173
— stratigraphical collection of.....	166
Roofing slate, from :	
Acton, tp. of, Bagot co., Que.....	106
Cleveland, tp. of, Richmond co., Que.....	107
Kingsey, tp. of, Drummond co., Que.....	106
Madoc, tp. of, Hastings co., Ont.....	107
Melbourne, tp. of, Richmond co., Que.....	107
Orford, tp. of, Sherbrooke co., Que.....	107
St. Sylvestre, Lotbinière co., Que.....	107
Shipton, tp. of, Richmond co., Que.....	107
Rutile.....	12

S.

Saline deposit, from :	
Bell R., L. Winnipegosis, Man.....	142
Maple Creek, Assa.....	142
Wood Mountain Post, Assa.....	142
Salt, common, manufactured from brine occurring at :	
Clinton, Huron co., Ont.....	142
Goderich, Huron co., Ont.....	142
Kincairdine, Bruce co., Ont.....	142
Port Franks, Lambton co., Ont.....	142
Salt R., L. Athabasca, N.W.T.....	143
Seaforth, Huron co., Ont.....	142
Sussex, King's co., N.B.....	142
Samarskite.....	26
Sand, silicious, used for brick-making, from :	
Montreal, Hochelaga co., Que.....	127
Port Nelson, Halton co., Ont.....	127
Upper Woodstock, Carleton co., N.B.....	127
Sand, silicious, suitable for glass-making, from :	
St. Joseph Island, L. Huron, Ont.....	162
Sand, silicious, used for moulding, from :	
Dundas, Wentworth co., Ont.....	162
North Sherbrook, Lanark co., Ont.....	162

INDEX TO SUBJECTS—*Continued.*

	Page
Sand, silicious, used for moulding, from :	
Owen Sound, Grey co., Ont.	162
Radnor Forges, Champlain co., Que.	162
Ste. Marguerite, Champlain co., Que.	162
Sand, silicious, suitable for polishing, from :	
Amherst Isd., Magdalen Islands, Que.	162
Laval, Montmorency co., Que.	162
Mount Hope, Wentworth co., Ont.	162
Sturgeon Cove, Charlotte co., N.B.	162
Sand, silicious, used for sharpening knives, from :	
Shipton, Richmond co., Que.	162
Sandstone, suitable for glass-making, from :	
Hemmingford, Huntingdon co., Que.	162
Nepean, Carleton co., Ont.	162
Oneida, Haldimand co., Ont.	162
Williamstown, Chateauguay co., Que.	162
Sandstone, suitable for grindstones, from :	
Alumette Rapids, Renfrew co., Ont.	160
Bay of Chaleurs, Bonaventure co., Que.	160
Clifton, Gloucester co., N.B.	160
Nanaimo, Vancouver Island, B.C.	161
Pembroke, Renfrew co., Ont.	160, 161
Sandstone, suitable for polishing, from :	
Dorchester, Westmoreland co., N.B.	161
Sandstone, suitable for whetstones (see also Whetstones), from :	
Antigonish, Antigonish co., N.S.	161
Sandstone, used as a fire resisting material, from :	
Pittsburgh, Frontenac co., Ont.	139
Sandstone, as a building stone, from :	
Admiralty or Salt Spring Island, B.C.	112
Amherst, Cumberland co., N.S.	111
Beauharnois, Beauharnois co., Que.	111
Bell's Corners, tp. Nepean, Carleton co., Ont.	111
Budreau village, Dorchester, Westmoreland co., N.B.	111
Caledon, Peel co., Ont.	112
Cap à l'Aigle, Charlevoix co., Que.	112
Cap Rouge, Portneuf co., Que.	111
Dundas, Wentworth co., Ont.	112
Eight Mile Brook, West River, Pictou co., N.S.	111
Esquesing, tp. of, Halton co., Ont.	111
Forks of the Credit, Caledon, Peel co., Ont.	112
Georgetown, tp. Esquesing, Halton co., Ont.	111
Haddington Isd., Broughton Strait, B.C.	112
Hawkesbury, Prescott co., Ont.	111
Isle Verte, Nipigon Bay, L. Superior, Ont.	112
Johnson's Brook, Glenville, Cumberland co., N.S.	111

INDEX TO SUBJECTS—*Continued.*

	Page
Sandstone, as a building stone, from :	
Ledge Point, Port McNeil, V. I., B.C.	112
Mary's Point, Shepody Bay, Albert co., N.B.	111
Miramichi R., Newcastle, Northumberland co., N.B.	111
Mono, Dufferin co., Ont.	112
Nanaimo, Vancouver Island, B.C.	112
Nepean, tp. of, Carleton co., Ont.	111
Newcastle Island, B.C.	112
Oneida, tp. of, Haldimand co., Ont.	111
Otty L., tp. North Elmsley, Lanark co., Ont.	111
Pembroke, Renfrew co., Ont.	111
Point Lévis, Lévis co., Que.	112
Portland, tp. Bastard, Leeds co., Ont.	111
Ramsay, Lanark co., Ont.	111
Rockland, Dorchester, Westmoreland co., N.B.	111
Saponite	25
Scapolite,—see Wernerite.	
Scheelite	28, 33
Scolecite	22
Selenite	28, 33
Semi-anthracite, from :	
Bow R., nr. Canmore station, C.P.R., Alta.	102
Bow R., vic. of, Rocky Mountains, Alta.	102
Cascade River, near Bow River, Alta.	102
Cascade R., Rocky Mountains, Alta.	102
Senarmontite	11
Serpentine	24, 25
Serpentine, columns of, polished	163
Serpentine, variety chrysotile,—see under Asbestos.	
Serpentine limestone, from :	
Grenville, tp. of, Argenteuil co., Que.	110
Grenville, Augmentation of, Quebec.	110
Serpentine marble,—see marble, serpentine.	
Shell marl,—see Marl.	
Siderite (spathic iron), from :	
Acadia Mines, Colchester co., N.S.	76
Cow Bay, Cape Breton co., N.S.	14
Flint Isd., E. coast of Hudson Bay.	14, 76
Little Whale R., E. coast of Hudson Bay.	76
Londonderry, Colchester co., N.S.	14, 76
McIntyre, tp. of, dt. Thunder Bay, Ont.	67, 76
Sutherlands R., Pictou co., N.S.	14, 76
Silicified wood	11
Silt, silicious, suitable for polishing, from :	
Columbia R., below second lake, B.C.	162
Crooked Ck., nr. Waterton Lake, Alta.	162

INDEX TO SUBJECTS—*Continued.*

	Page
Silt, silicious, suitable for polishing, from :	
Red Deer R., eight miles above Forks of, N.W.T.....	162
White Mud River, Cypress Hills, Assa.....	162
Silver glance,—see Argentite .	
Silver, Minerals and ores of :	
Argentite.....	6, 48, 49
Arquerite.....	6
Silver glance,—see Argentite.	
Silver-lead ore,—see under Galenite.	
Silver, Native.....	5, 48, 49, 50
Tetrahedrite, Argentiferous.....	50
Silver, Native, from :	
Bear Lake, vic. of, W. Kootanie dt., B.C.....	5, 50
Kootanie Lake, vicinity of, B.C.....	43
Lybster, tp. of, dt. Thunder Bay, Ont.....	5, 49
McGregor, tp. of, dt. Thunder Bay, Ont.....	48, 49
McIntyre, tp. of, dt. Thunder Bay, Ont.....	48
O'Connor, tp. of, dt. Thunder Bay, Ont.....	49
Omenica, B.C.....	5
Paiipoonge, tp. of, dt. Thunder Bay, Ont.....	5, 48
Silver Islet, Lake Superior, Ont.....	5, 48
Spar Island, Lake Superior, Ont.....	48
Whitefish R., dt. Thunder Bay, Ont.....	49
Silver ore,—from :	
Acadia claim, McDame Ck., Cassiar, B.C.....	47
Alpha claim, Mount Field, B.C.....	42
Apex claim, Cottonwood-Smith Ck., B.C.....	43
Arctic Circle claim, Boulder Ck., Omenica, B.C.....	47
Ardmore claim, Nicola Valley, B.C.....	47
Badger mine, tp. Gillies, Ont.....	49
Balfour claim, Illecillewaet R., B.C.....	44
Beaver claim, W. Kootanie dt., B.C.....	45
Beaver mine, tp. O'Connor, Ont.....	49
Beck mine, tp. McGregor, Ont.....	48
Best claim, W. Kootanie dt., B.C.....	46
Black Chief claim, Kootanie Lake, B.C.....	43
Black Horse claim, Deception Ck., B.C.....	42
Blue Bell claim, Kootanie Lake, B.C.....	44
Blue Bird claim, W. Kootanie dt., B.C.....	46
British Empire claim, Nicola Valley, B.C.....	47
Cariboo claim, Illecillewaet dt., B.C.....	44
Cariboo and Northern Interior of B.C.....	47
Carleton claim, Mount Stephen, B.C.....	41
Copper Bonanza claim, Otter-tail Ck., B.C.....	41
Cornucopia claim, Mount Stephen, B.C.....	41
Cottonwood mine, Cottonwood-Smith Ck., B.C.....	42

INDEX TO SUBJECTS—*Continued.*

	Page
Silver ore, from :	
Crescent claim, Spilimichene R., B.C.	42
Dandy claim, Toad Mountain, B.C.	42
Dardanelles claim, W. Kootanie dt., B.C.	46
Della claim, Kootanie Lake, B.C.	43
Dictator claim, Kootanie Lake, B.C.	43
Duncan mine, tp. McIntyre, Ont.	48
Dunvegan claim, Illecillewaet dt., B.C.	45
East Kootanie, district of, B.C.	41
Edinburgh claim, Illecillewaet dt., B.C.	44
Elizabeth claim, Illecillewaet dt., B.C.	44
Evening Tide claim, Toad Mountain, B.C.	42
Field Station, vic. of, C. P. R., B.C.	42
Fishburn claim, Illecillewaet dt., B.C.	45
Florence claim, Illecillewaet dt., B.C.	45
Freddie Lee claim, W. Kootanie dt., B.C.	46
Gillies, tp. of, dt. Thunder Bay, Ont.	48, 49
Gold Hill claim, Illecillewaet dt., B.C.	45
Great Western claim, W. Kootanie dt., B.C.	46
Grizzly claim, Toad Mountain, B.C.	42
Hendryx mining camp, B.C.	44
Herring-back claim, Illecillewaet dt., B.C.	44
Highlander claim, Kootanie Lake, B.C.	43
Hot Springs or Ainsworth mining camp, B.C.	43
Ibex claim, Illecillewaet dt., B.C.	45
Idaho Mtn., Nicola Valley, B.C.	41
Illecillewaet Mines, B.C.	44
Iron Horse claim, W. Kootanie dt., B.C.	45
Iroquois claim, Toad Mountain, B.C.	42
Isabella claim, Illecillewaet River, B.C.	44
Jeff Davis claim, Kootanie Lake, B.C.	43
Jenny Long claim, Nicola Valley, B.C.	47
Joshua claim, Nicola Valley, B.C.	46
Jumbo claim, Toby Creek, B.C.	42
Jumbo claim, Illecillewaet dt., B.C.	44
Kaslo-Slocan Mines, B.C.	45
King William claim, Nicola Valley, B.C.	47
Kootanie Bonanza claim, Toad Mtn., B.C.	42
Kootanie Chief claim, Kootanie Lake, B.C.	44
Krao claim, Kootanie Lake, B.C.	43
Labeau Mines, Cottonwood-Smith Ck., B.C.	43
Lady of the Lake claim, Illecillewaet dt., B.C.	45
Lanark claim, Illecillewaet River, B.C.	44
Little Donald claim, Kootanie Lake, B.C.	43
Louis claim, nr. Otter-tail Station, C. P. R., B.C.	41
Lucky Jim claim, W. Kootanie dt., B.C.	46

INDEX TO SUBJECTS—*Continued.*

	Page
Silver ore, from :	
McMurdo mining area, B.C.....	42
Maple Leaf claim, Illecillewaet River, B.C.....	44
Mary Reynolds claim, Nicola Valley, B.C.....	47
Mascot claim, Copper Creek, B.C.....	42
Monarch claim, Mount Stephen, B.C.....	42
Monte Cristo claim, W. Kootanie dt., B.C.....	45
Montezuma claim, W. Kootanie dt., B.C.....	45
Neosho claim, Kootanie Lake, B.C.....	43, 44
Nevada claim, Tulameen River, B.C.....	47
Noble Five claim, W. Kootanie dt., B.C.....	46
Number One claim, Kootanie Lake, B.C.....	43
Okanagan claim, W. Kootanie dt., B.C.....	46
Payne claim, W. Kootanie dt., B.C.....	45
Pie Island, Lake Superior, Ont.....	48
Pine Bay, tp. Crooks, L. Superior, Ont.....	48
Pioneer claim, Otter-tail Ck., B.C.....	41
Planet claim, Nicola Valley, B.C.....	47
Poor Man claim, vic. of Nelson, B.C.....	43
Porcupine mine, tp. Gillies, Ont.....	48
Prince's location, L. Superior, Ont.....	48
Rabbit Mountain mine, tp. Paipoonge, Ont.....	48
Rock Ck., Kettle R., Okanagan, B.C.....	47
Sadon's Ledge, Mosquito Ck., Cariboo, B.C.....	47
Sailor Boy claim, Illecillewaet R., B.C.....	44
Sanquahar claim, Illecillewaet dt., B.C.....	44
Shakespere claim, Illecillewaet dt., B.C.....	45
Shuniah mine, tp. McIntyre, Ont.....	48
Silver Bow claim, Illecillewaet dt., B.C.....	45
— Harbour mine, tp. McGregor, Ont.....	48
— Hill claim, tp. Lybster, Ont.....	49
— Islet, Lake Superior, Ont.....	48
— King claim, Toad Mountain, B.C.....	42
— Mountain mine, tp. Lybster, Ont.....	49
— Queen claim, Jamieson Ck., B.C.....	47
— Tip claim, W. Kootanie dt., B.C.....	45
Singleton mine, tp. McIntyre, Ont.....	48
Sky Line claim, Kootanie Lake, B.C.....	43
Slocan Boy claim, W. Kootanie dt., B.C.....	46
Slocan Star claim, W. Kootanie dt., B.C.....	46
Solo claim, W. Kootanie dt., B.C.....	45
Southern Interior of B.C.....	46
Spar Island, Lake Superior, Ont.....	48
Spokane claim, Kootanie Lake, B.C.....	43
Star claim, Nicola Valley, B.C.....	46
Stump Lake or Nicola Mines, B.C.....	46

INDEX TO SUBJECTS—*Continued.*

	Page
Silver ore, from :	
Stump Lake, Nicola Valley, B.C.	41, 46
Sunrise claim, Kootanie Lake, B.C.	43
Sweden claim, Kootanie Lake, B.C.	43
Syenite Bluff claim, Deception Ck., B.C.	42
Three A mine, tp. McGregor, Ont.	48
Thunder Bay mine, tp. McGregor, Ont.	48
Thunder Bay mining region, Ont.	48
Tiger claim, Kootanie Lake, B.C.	43
Toad Mountain mining camp, B.C.	42
Tough Nut claim, Toad Mountain, B.C.	42
Triangle claim, W. Kootanie dt., B.C.	45
Tubal Cain claim, Nicola Valley, B.C.	47
Twin Cities mine, tp. Gillies, Ont.	48
Umatilla claim, Cottonwood-Smith Ck., B.C.	43
Uncle Sam claim, Cottonwood-Smith Ck., B.C.	43
Union claim, Tulameen River, B.C.	47
Union claim, Illecillewaet dt., B.C.	45
United claim, Kootanie Lake, B.C.	43
Washington claim, W. Kootanie dt., B.C.	46
Wellington mine, W. Kootanie dt., B.C.	46, 50
West Kootanie, district of, B.C.	42
White Heather claim, W. Kootanie dt., B.C.	45
Yosemite claim, W. Kootanie dt., B.C.	45
Zeila claim, Nicola Valley, B.C.	47
Slate, articles manufactured from :	
Flooring tiles.	107
Ornamental slate panel.	107
Roofing slate.	106
School slates.	107
Soap clay, used as a detergent.	162
Soapstone (steatite, compact talc), from :	
Bolton, tp. of, Brome co., Que.	139
Brome, tp. of, Brome co., Que.	25
Eagle Head, Gabarus Bay, N.S.	139
Elzevir, tp. of, Hastings co., Ont.	139
Garthby, tp. of, Wolfe co., Que.	139
Potton, tp. of, Brome co., Que.	25, 139
Sutton, tp. of, Brome co., Que.	139
Soapstone, bucket made of.	139
Sodalite.	17, 18, 31, 146, 150
Spathic iron ore,—see Siderite.	
Specimens illustrating phenomenal geology.	167
Specular iron ore, from :	
Brome, tp. of, Brome co., Que.	65
Cape Gargantua, L. Superior, Ont.	74

INDEX TO SUBJECTS—*Continued.*

	Page
Specular iron ore, from :	
Chedabucto Bay, Guysborough co., N.S.	72
Cook's Brook, Colchester co., N.S.	73
East River, Pictou co., N.S.	64, 65, 73
Iron Mountain, Nicola River, B.C.	65
Lac des Chats, Pontiac co., Que.	65, 73
Leeds, tp. of, Megantic county, Que.	73
Mamainse, Lake Superior, Ont.	65
Nicola River, B.C.	65, 74
North Elmsley, tp. of, Lanark co., Ont.	73
Pinnacle Mtn., Missisquoi co., Que.	65, 73
Pointe aux Mines, L. Superior, Ont.	65
Polson's Lake, Antigonish co., N.S.	72
St. Armand West, tp. of, Missisquoi co., Que.	11
Salmon R., Guysborough co., N.S.	11, 72
Shefford, tp. of, Shefford co., Que.	11, 73
Sutton, tp. of, Brome co., Que.	73
Templeton, tp. of, Ottawa co., Que.	11, 65, 73
Whitefish River, dt. Algoma, Ont.	74
Sperrylite	8
Spessartite	18
Sphalerite (zinc blende), from :	
Burrard Inlet, north of, B.C.	7
Calumet, tp. of, Pontiac co., Que.	55, 59
Elzevir, tp. of, Hastings co., Ont.	55
Garden River, dt. Algoma, Ont.	59
Kaministiquia R., dt. Thunder Bay, Ont.	7, 55, 59
Lake Superior, Ont.	59, 60
McKay's Harbour, L. Superior, Ont.	59
McKellar's Island, L. Superior, Ont.	59
Marlow, tp. of, Beauce co., Que.	7
Niagara Falls, Welland co., Ont.	7
Pointe aux Mines, L. Superior, Ont.	55, 59
Red Deer River, Rocky Mtns, Alta.	60
Rossport, L. Superior, Ont.	55, 59
St. Armand, tp. of, Missisquoi co., Que.	59
Stellarton, Pictou co., N.S.	7
Sphene,—see Titanite.	
Spinel	12
Staurolite	20
Steatite,—see Soapstone.	
Steatite, used as a pigment.	134
Steeleite.	21
Stellarite, Acadia Mines, Pictou co., N.S.	105
Stibnite (antimony glance), from :	
Echo Lake, dt. Algoma, Ont.	57

INDEX TO SUBJECTS—*Continued.*

	Page
Stibnite, from :	
Fraser River, nr. Foster's Bar, B.C.	6
Lake George, Prince William, York co., N.B.	6, 54, 57
South Ham, Wolfe co., Que.	6, 54, 57
West Gore, Hants co., N.S.	54
Stilbite.	21, 32
Stratigraphical collection of rocks.	166
Strontianite.	14
Structural geology, specimens illustrating.	167
Sulphur, Native.	5
Sulphur, ore of,—see Pyrite.	
Superphosphate.	151
Syenite, as a building stone,—from :	
Barrow or Forsyth's Isd., R. St. Lawrence, Leeds co., Ont.	113
Grenville, tp. of, Argenteuil co., Que.	113
Jeune Lorette, St. Gabriel, Quebec co., Que.	113
Victoria, Vancouver Island, B.C.	113
Sylvanite, Moss, tp. of, Ont.	8, 49
Systematic collection of minerals.	3
Talc, from :	
Clarendon, tp. of, Frontenac co., Ont.	25
Elizabethtown, tp. of, Leeds co., Ont.	25
Grimsthorpe, tp. of, Hastings co., Ont.	33
Potton, tp. of, Brome co., Que.	25
Talc, compact,—see Soapstone.	
Tar, mineral,—see Mineral tar.	
Tennantite.	9
Terra-cotta ware.	125
Tetrahedrite (grey copper), from :	
Ascot, tp. of, Sherbrooke co., Que.	9
Cherry Ck., Shuswap L., B.C.	50
Fraser River, B.C.	9, 89
Thomsonite.	22
Thétis-hair stone.	149
Tile stones, Bonaventure co., Que.	107
Tiles, drain.	125, 126, 127
Tiles, flooring.	107, 123
Titanic iron-ore,—see Ilmenite.	
Titanite.	26, 33
Tourmaline.	20, 32
Trap rock, as a building stone.	113
Tremolite.	17, 31
Tripolite, earthy,—see Infusorial earth.	
Tufa, calcareous, from :	
Caledon, Peel co., Ont.	14
Cayuga, Haldimand co., Ont.	14

INDEX TO SUBJECTS—*Continued.*

	Page
Tufa, calcareous, from :	
Dundas, Wentworth co., Ont.	14
Tobique River, Victoria co., N.B.	14
Tungstite.	11
Turgite.	12

U.

Ulexite.	27
Uraconite.	28
Uralite.	17
Uraninite.	27
Uranochre,—see Uraconite.	

V.

Valentinite.	11, 57
Veinstone, banded—pyroxene and apatite.	167
— — calcite and hornblende.	167
— — concretionary.	167
Vesuvianite.	19
Vitreous copper ore,—see Chalcocite.	
Vitreous silver,—see Argentite.	
Vivianite.	27
Volcanic breccia, as an ornamental stone.	120

W.

Wad.	13
Wernerite.	18, 19, 31, 32
Whetstones, made from mica-slate, from :	
Bolton, tp. of, Wolfe co., Que.	161
Ham, tp. of, Wolfe co., Que.	161
Kingsey, tp. of, Drummond co., Que.	161
Madoc, tp. of, Hastings co., Ont.	161
Massawippi L., Stanstead co., Que.	161
Stanstead, tp. of, Stanstead co., Que.	161
Whetstones, made from sandstone from :	
Arnprior, tp. McNab, Renfrew co., Ont.	161
Nottawasaga, tp. of, Simcoe co., Ont.	161
Wilsonite.	19, 23
Witherite.	14
Wollastonite.	16

INDEX TO SUBJECTS—*Continued.*

Y.

Yellow copper ore,—see Chalcopyrite.

Page

Z.

Zinc blende,—see Sphalerite.

Zircon.....

19

